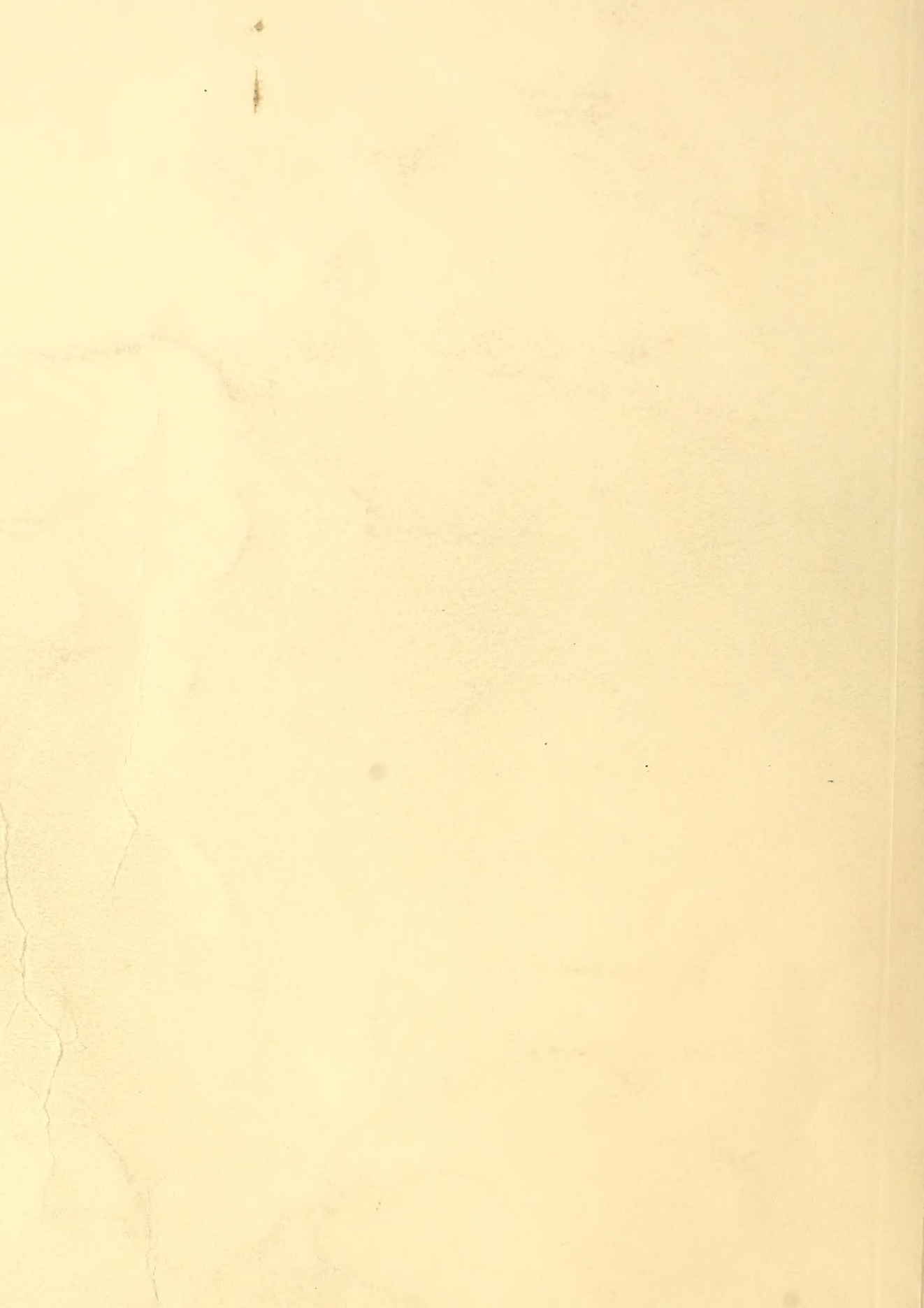


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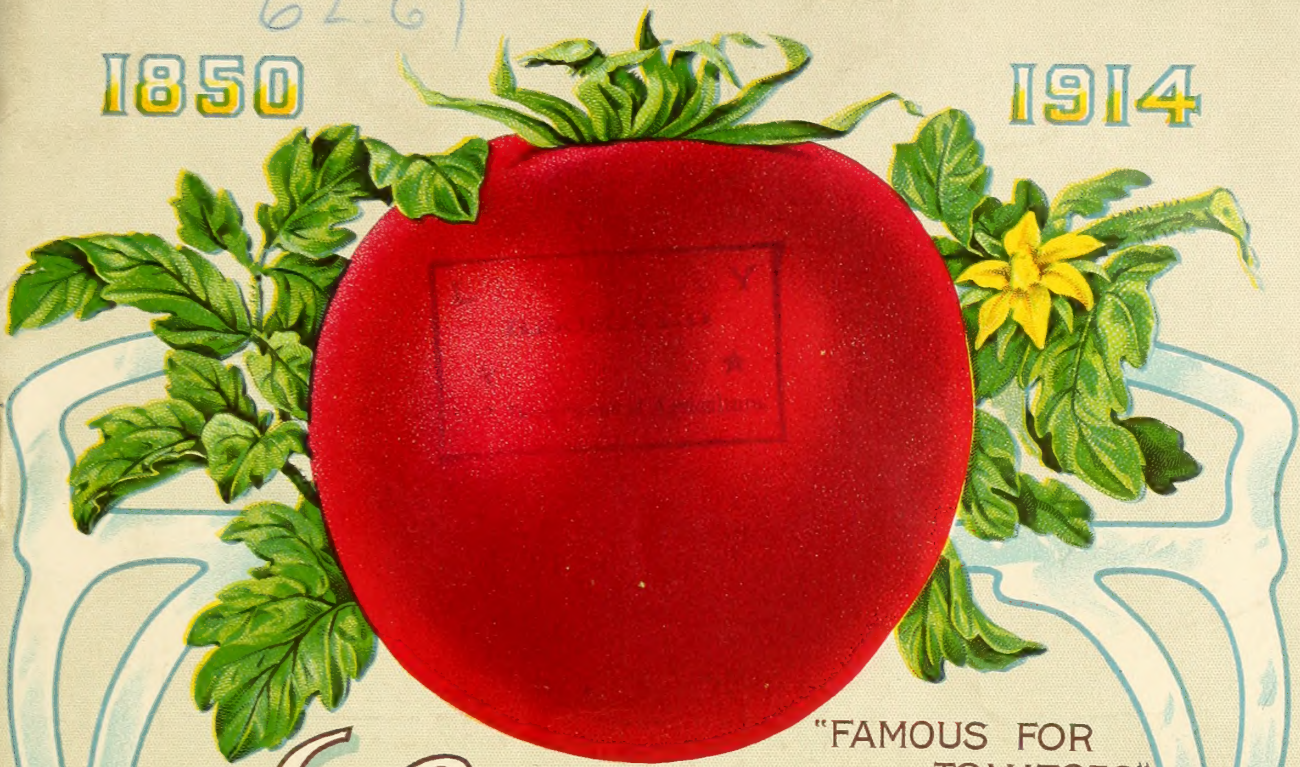
Do not assume content reflects current scientific knowledge, policies, or practices.



62-67

1850

1914



"FAMOUS FOR
TOMATOES"

Livingston's

SEED
ANNUAL



THE LIVINGSTON
SEED CO.

114 NORTH HIGH ST.

COLUMBUS, OHIO.



\$1 { Our Great One Dollar Collection } \$1 OF "True Blue" Vegetable Seeds

Every sort included represents the best of its class and many high-priced novelties of real merit make this collection doubly worth while.

The demand for this collection started years ago when we would get orders from people for a dollar's worth of vegetable seeds—the best we could do. Many are not familiar with the merits of the different sorts offered in this Catalog and for those we get up this collection the best we know how.

From year to year we change it. Obsolete sorts are dropped, new varieties of better character added, and we firmly believe that a better collection than ours cannot be bought at as low a price anywhere in this country.

At the same time its price is the only cheap thing about it. Full-sized packets, such as we supply to the most critical trade on regular orders go into the collection. Eight of the sorts named below retail for 10 cents each. The remaining 24 packets you buy for 20 cents in this collection. For good measure we throw in an ounce of Nasturtiums or an ounce of Livingston's Fine Mixed Sweet Peas, and the whole comes to you by mail delivered free at your door.

The reason why we sell this collection at such a low price is twofold: We can put up the boxes before the Spring rush starts, get thousands of them ready so that, when the order comes, all that needs be done is to wrap the box, affix postage stamps and out it goes—always the same day we get the order. This popular priced collection also gives new customers an opportunity to try a large assortment of "true blue" seeds at a moderate cost. Our margin of profit on this collection is smaller than on anything else we sell; yet we consider each collection sold a good investment which, in time, will bring us increased business.

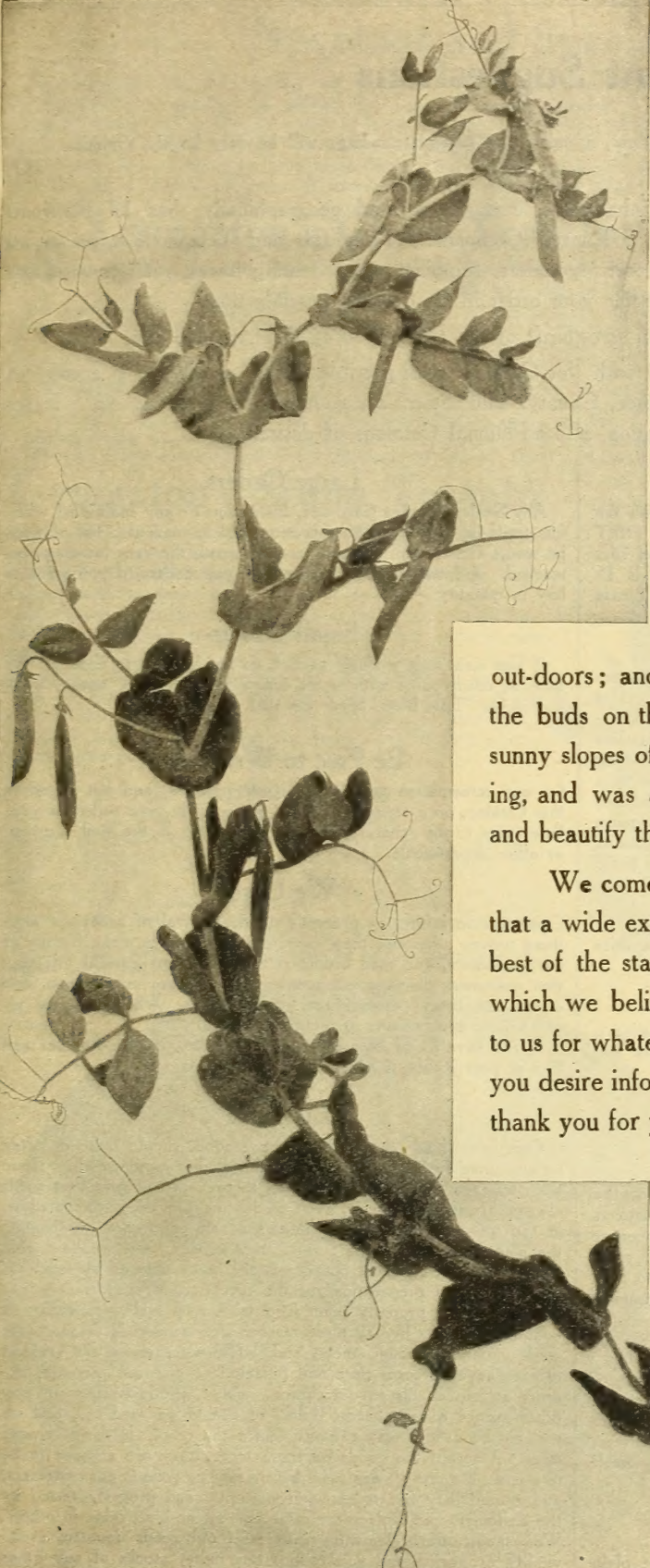
Please do not ask us for any discount in connection with an order for our Dollar Collection and any special offers in this Catalog do not apply to or cannot be taken advantage of in connection with it. No changes can be allowed. **Here is what One Dollar will buy:**



32—Full-Sized Packets as follows for Only One Dollar—32

- | | |
|---|--|
| <ul style="list-style-type: none"> 1 Beans—Dwarf, New Giant Stringless Green-Pod. 2 Beans—Dwarf, Livingston's Hardy Wax. 3 Beet—Detroit Dark Red. Very early and tender. 4 Beet—Lucullus Swiss Chard. Finest for beet greens. 5 Cabbage—Glory of Enkhousen. Round heading sort. 6 Cabbage—Danish Ball-head Tall-stemmed. Round as a ball, solid, tender. 7 Celery—Livingston's White Plume. Early; good flavor. 8 Cucumber—Klondyke. Dark green, shapely pickle. 9 Cucumber—Livingston's White-Spine. Best slicer. 10 Sweet Corn—Livingston's Evergreen. Sweetest of all. 11 Sweet Corn—Golden Bantam. Very early and sweet. 12 Lettuce—Big Boston. Tender. Large headed sort. 13 Lettuce—Livingston's Bon Ton. Finest Early Curled. 14 Lettuce—Iceberg. Finest, crispest, coolest. Tender. 15 Water Melon—Sweet-Heart. Quality very delicious. 16 Musk Melon—Rocky Ford. Green flesh. Early sweet. | <ul style="list-style-type: none"> 17 Musk Melon—Tip Top. Salmon flesh; delicious. 18 Onion—Ohio Yellow Globe. Best for general crop. 19 Onion—Indiana Silver-Skin. Fine; flat; good keeper. 20 Pepper—Ruby King. Large, sweet and prolific. 21 Parsnip—Hollow Crown. Large and extra sweet. 22 Parsley—Moss Curled. Very fine green variety. 23 Peas—Little Marvel. Early, sweet, prolific. 24 Peas—Stratagem. Large pods, full of sweet peas. 25 Radish—Cincinnati Market. Great favorite for early. 26 Radish—Rosy Gem. Fine, bright red; early. 27 Radish—Livingston's Pearl. Fine, long, white variety. 28 Squash—Giant Golden Summer Crookneck. Best Summer. 29 Squash—Hubbard. Fine for Winter use. 30 Tomato—Livingston's Hummer. Fine red variety. 31 Tomato—Livingston's Beauty. No better purple sort. 32 Turnip—Purple-Top White Globe. One of the best. |
|---|--|

Free With each order for **OUR GREAT DOLLAR VEGETABLE COLLECTION** the buyer may select one ounce of either Livingston's Fine Mixed Sweet Peas, or one ounce Livingston's Top Notch Mixture of Tall Nasturtiums. With each collection we enclose a helpful leaflet of cultural directions—The Vegetable Garden.



Columbus, O., January 1, 1914.

To Our Friends, Greeting:

ANOTHER year has passed since you received a copy of our Annual Catalog; the receipt of such a book has come to be looked upon as a harbinger of Spring, which indeed it is, bringing with it as it does every suggestion of an awakening season. "There is a time to sow," and as the long Winter season comes to a close we all unconsciously begin to think of growing things—of bud and leaf and flower, and we are filled with a longing to be

out-doors; and as we look out we detect a swelling of the buds on the trees, a shade of green showing on the sunny slopes of the hills, as if Nature, too, felt a quickening, and was anxiously awaiting the signal to come forth and beautify the earth once more.

We come to you again to offer you the best in seeds that a wide experience can procure. We offer you the best of the standard varieties, and some new ones, all of which we believe are good, and we hope you will come to us for whatever you require in seeds, and come to us if you desire information as to the growing of them; and we thank you for your generous support in the past.

*The Livingston
Seed Co.*

Important Suggestions

By carefully observing the following Rules and Directions, mistakes and misunderstandings will be very largely avoided.

COLUMBUS, OHIO, is a city of about 200,000 inhabitants, centrally located geographically, has 17 Railroad Systems, which practically cover the entire country, 5 Express Companies, Telegraph and Telephone wires in all directions, which afford us *unequaled facilities* for receiving orders, shipping and procuring lowest rates to all parts of the country; besides you have the assurance of getting your order in the quickest possible time.

Within Twenty-four Hours' Time we can reach two-thirds of the Population of the United States.

Always Use the Order Blank and envelope sent with this Catalog when possible. Write plainly, keep a copy of your order, and be sure to sign your name, Postoffice, County, and State every time you write to us. Extra Envelopes and Order Blanks will be sent on application, also additional Catalogs, if desired.

Special Notice

Many people request us to send Seeds by Parcel Post with the idea that the new rules apply to this class of merchandise. **THEY DO NOT.** The old rates of 8c. per pound, 8c. per pint, and 15c. per quart are still in effect. The weight limit, however, is 11 pounds, except in zones 1 and 2, where it is 20 pounds. Please bear this in mind.

Send Money

Remittance should always accompany the order. Remittances may be made at our risk by any of the following methods: (1st and best)—Postoffice Order; (2d)—Draft on New York; (3d)—Express Co. Money Order; (4th)—Cash by Express in amounts less than \$5.00; (5th)—Registered Letters. When money cannot be sent by either of the first four methods, it may be enclosed in a Registered Letter. The rates charged for Postoffice Orders and Express Money Orders are so low that this is the best way to remit where they can be obtained. We will bear expense of sending money in either of the above ways when order amounts to \$1.00 or over.

No Goods Sent C. O. D.

unless cash to the amount of one-fourth the order accompanies the same.

Seeds by Mail

Sending seeds by mail is a very important branch of our business, and we are prepared to fill orders promptly and correctly the day they are received in nearly all cases.

Our Prices

In comparing our mail prices, especially on heavy seeds, such as Peas, Beans and Corn by the quart and the pint, and other seeds by the pound and one-fourth pound, bear in mind that we pay the postage, unless otherwise noted. Remember another thing—packets of heavy seeds, like Peas, Beans, etc., quoted by some seedsmen at 5 cents per packet, postpaid, contain but a small amount of seed, after allowing for the 2 or 3 cents postage that it requires to mail each packet. Preferring to please customers rather than disappoint them, we put up liberal 10c. packets of such seeds.

Order Early

It is important to order as soon after you get the Catalog as convenient, then you will have your seeds at hand for planting when you want them; besides, if you want seeds in large quantities, they can be sent by freight much cheaper than by express. Small orders, however, can often go as cheaply by express.

Shipping Orders

When goods are to be shipped by freight or express, give plain shipping directions; otherwise we use our best judgment.

Large Orders

Any Dealer, Market Gardener, Institution or any Individual wishing seeds in large quantities, is requested to mail us a list of what he wants and we will promptly return it with the very lowest prices marked. A letter of inquiry may save you dollars, if you want to buy in quantity.

Small Orders

If you want only a single packet, do not hesitate to order it. We take as much pains with small orders as with large ones. Small orders for "True Blue" Seeds are sure to grow larger.

Be Free to Write Us

for any information pertaining to our business, and not found in this Catalog, on a separate sheet of paper from your order, as your letter goes to the general office and your order to the Mail, Express, or other departments.

We Urge

Customers to inform us promptly on the arrival of orders, if anything proves otherwise than expected. We aim to make friends of our customers, and mail orders receive the same careful attention that customers do over our counters, but we are only human, and errors sometimes (though not often) occur. When they do we are willing and anxious to rectify them.

If you have Rural Mail Delivery be sure to give the Number and Box of your Route, if necessary, when ordering.

Guarantee

Complaints made that seeds are not good, should quite as often be attributed to other causes, as to the quality of the seeds. There are contingencies continually arising to prevent the very best seeds always giving satisfaction, such as sowing too deep, too shallow, in too wet or too dry soil; insects of all descriptions destroying the plants as soon as, or before, they appear; wet weather, cold weather, frosts, chemical changes in the seeds induced by temperature, etc. Soil preparation for the reception of seed is very important; if not properly done seed with very high germination is bound to perish. For all these reasons it is impossible to guarantee seeds under all circumstances, and, while we exercise the greatest care to have all seeds pure and reliable, we give no warranty, express or implied, as to description, quality, productiveness or any other matter of any Seeds, Bulbs, or Plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned. We test all our seeds before sending them to our customers, and should they fail to grow, if promptly and properly tested by the customer, will replace the same amount or give value in others. We cannot afford, knowingly, to send out seeds doubtful as to vitality or purity, and you cannot buy better stocks of any other seedsman.

Novelties and Specialties for 1914

You will find under this heading new varieties worthy of trial, and others of such value as to warrant our giving them special mention. A vast number of novelties are offered each year which, after growing on our trial grounds, prove no better than standard varieties, if as good, so that in line with our policy of furnishing the best seeds procurable we endeavor to furnish in new types, only such as have made good on our trial grounds. There are varieties which, while not new in the strictest sense of the word, are of recent introduction and demand special notice as being much superior to ordinary types, and these we hope our customers will try along with some of the novelties, all of which will prove of interest and aid in the development of a more productive garden.

Livingston's Globe Tomato (Our First Globe Shaped Tomato)

Originated With Us and Introduced in 1905. The Finest Early Purple Tomato in Existence. Very Distinct in Shape, Firm Fleshed, of Delicate Flavor. Blight Proof.

Livingston's Globe Tomato is early. In time of ripening we class it with the first-earlies, being among the first to ripen fruit, both in our greenhouses, as well as our field trials, along with many other varieties. The fruits are of large size, and a good marketable size is retained throughout the season; it is always smooth, of firm flesh, and few seeds; ripens evenly; color, a fine glossy rose, tinged with purple and without the slightest tinge of yellow at any stage of ripening.

Livingston's Globe Tomato is an exceedingly productive variety, having plants with many short joints, at which large clusters containing three to seven fruits are almost invariably formed, so that it can be truthfully stated the plants are literally loaded with fruit. It is a remarkably good keeper.

Livingston's Globe Tomato is delicious. In quality there is nothing more to be desired, being mild, pleasant, and of delicious flavor; unsurpassed for slicing, or to eat from the hand. Pkt., 10c.; oz., 30c.; ¼ lb., \$1.00; lb., \$3.00.

Livingston's Stone Tomato

Is the largest and most productive, bright red, perfectly smooth main crop Tomato in cultivation. It is the standard by which all other varieties are judged and none have taken its place in a period of 24 years.

Our sales of Stone Tomato Seed each year are remarkable. It requires tons of seed to fill our orders—not from other seedsmen, but from growers. Stone is the principal canning variety used in this country, yet it is also of great value in the home garden and is used throughout the country. It is certainly a wonderful Tomato, but you must get our true stock if you really want and enjoy good Tomatoes.

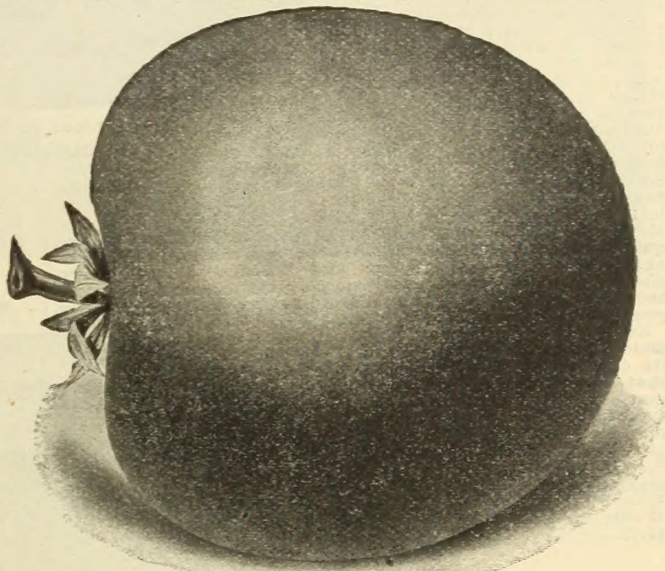
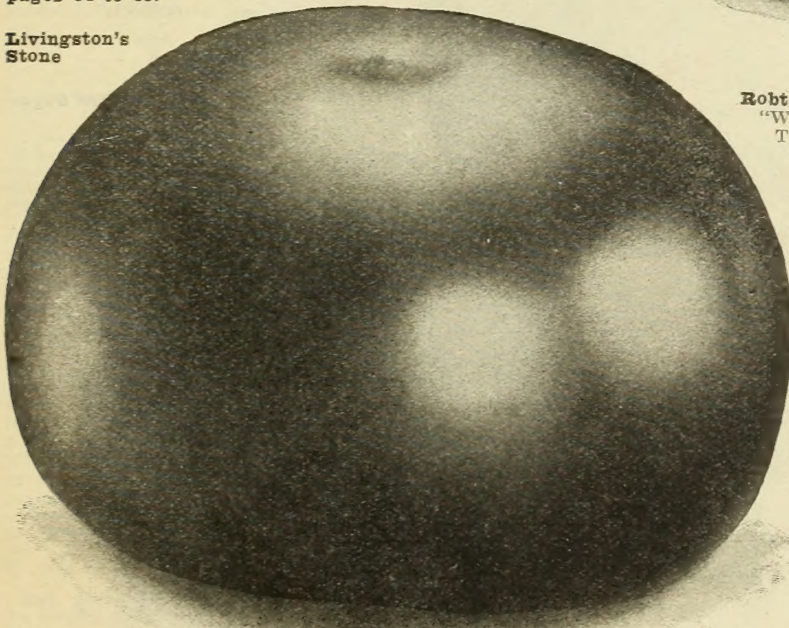
Livingston's Stone

As Grown by Livingstons

Cannot be purchased in bulk. It is grown under our personal supervision, the seed saved on our own farms and sold under our "True Blue" seal. A vast amount of Tomato Seed offered as Livingston's Stone is not our strain. You can only procure seed of our growing direct from us or from dealers handling our seed under seal. Pkt., 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

Other varieties of Tomatoes will be found described on pages 64 to 69.

Livingston's Stone



Livingston's Globe Tomato

Robt. L. Plues, Wayne Co., Mich., writes (2-22-13): "Wish to say that I have grown your Globe Tomato for two years now and it is certainly excellent. I raised my plants in my hotbed and they were admired by all who saw them, because of their fine, sturdy growth. Sold quite a few plants and to all who purchased them I had good reports of an abundance of beautiful Tomatoes. Your seeds have always fulfilled all your claims for them and I wish you many years of success."

Mr. Robt. McKay, Ludlow, Ky., writes. "The Stone Tomato I have planted has come up fine. I do not believe you ever got out a better red Tomato. It seems that every seed of yours comes up. Thanking you for your reliable dealings, I remain, yours for 'True Blue' Seeds."



To be sure of seed grown by us insist upon having it in packages bearing our registered



"True Blue" Seal

Large quantities of spurious Tomato Seed is sold annually as Livingston's by unprincipled persons, hence this warning. The Livingston Seed Co., Columbus, Ohio.

Livingston's Ohio Sugar Muskmelon

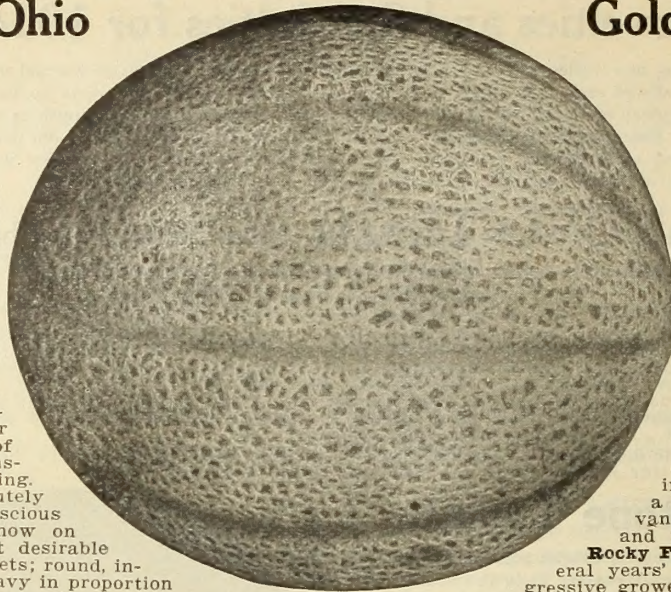
A Green-Fleshed Tip Top

For a number of years we have had many inquiries from our gardening friends for a **green-fleshed** Melon with the uniformly good qualities of **Livingston's Tip-Top** (the best yellow-fleshed Melon ever sent out). We have it now in this, the sweetest, richest flavored green-fleshed Melon we have ever seen.

Livingston's Ohio Sugar Melon is an absolutely distinct and very superior Melon. It is the result of careful hybridizing and painstaking selection and breeding. We believe it to be absolutely the sweetest and most luscious green-fleshed cantaloupe now on the market. It is of that desirable size in demand in all markets; round, inclined to oval in shape, heavy in proportion to size because the flesh is so deep. It is distinctly ribbed and thickly netted—color of skin grey-green. Because of its firm flesh and solidity, it is a splendid shipper. Seed cavity small. It is no lottery to select a good **Ohio Sugar Melon**. They are all good, sweet and delicious clear to the rind. It is the rarest exception that an under-quality Melon is found. **The flesh is an attractive green of exquisite texture, sugary, juicy, tender, and entirely free from any stringiness. Handsome and uniform shape; every Melon a good one; sweet and luscious clear to the rind. It has become a popular market and home-garden Melon. Produces good Melons on all soils.**

Every one who tries this Melon goes into ecstasies over its captivating flavor. It has that delightfully rich aromatic flavor which is so refreshing. The vines are of luxuriant and vigorous growth, yielding bountifully through the entire season. Pkt., 10c.; ½ oz., 15c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.75.

Ohio Sugar



Gold-Lined Rocky Ford
Cantaloupe

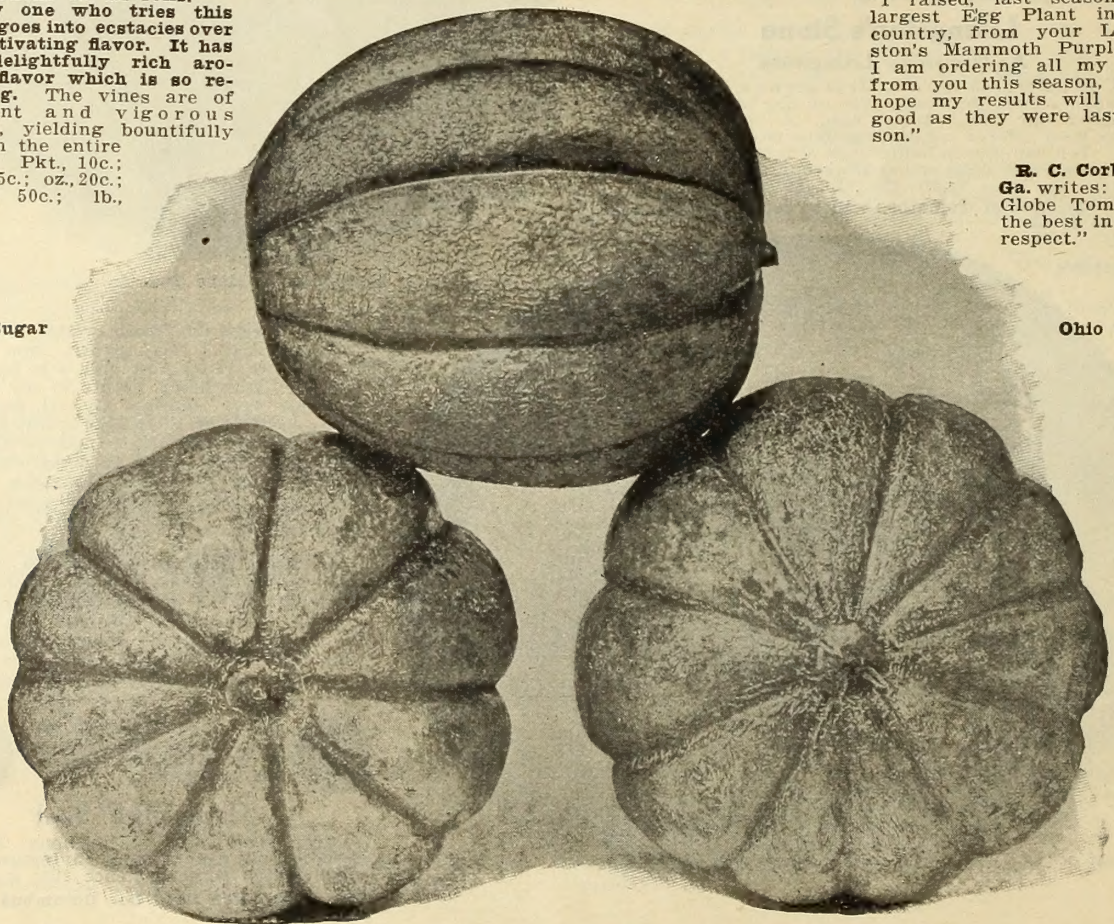
Gold Lined Rocky Ford Muskmelon

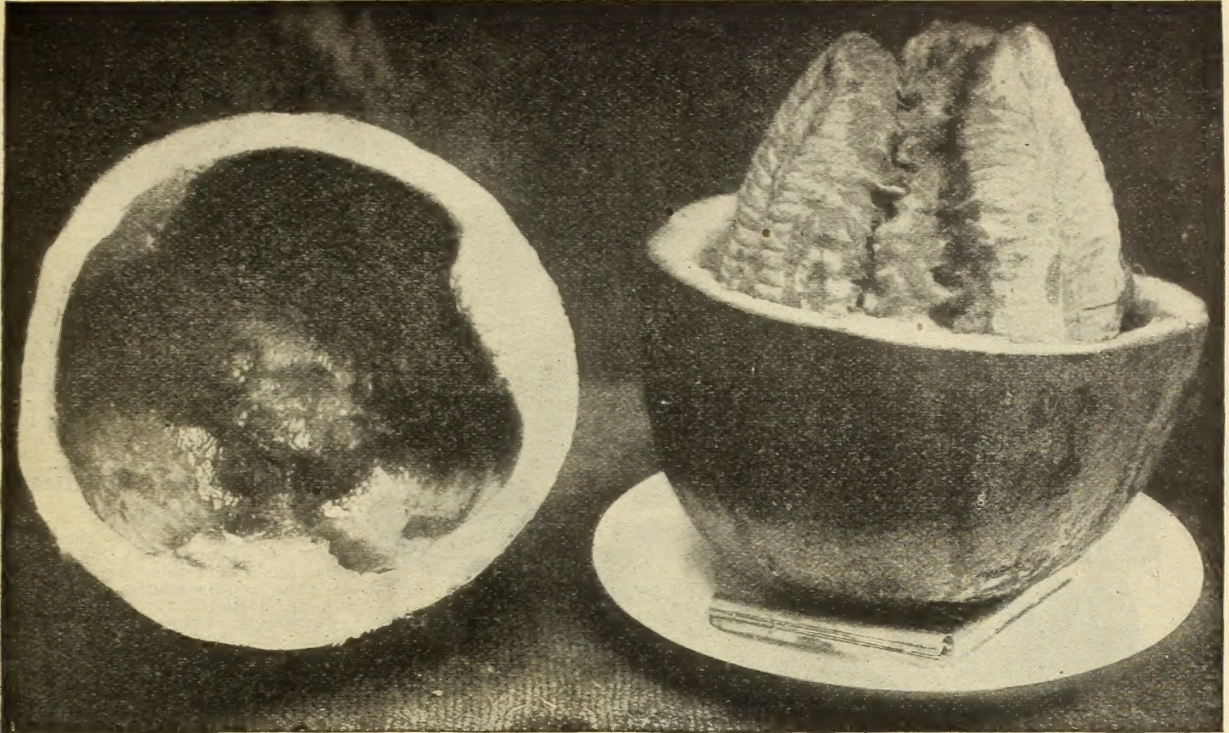
Years ago a variety of Muskmelon was introduced and called "Netted Gem." It was a highly flavored, green-fleshed Melon with small seed cavity and a finely netted rind. The quality of the Melon was exceptionally fine. Growers in Rocky Ford, Colo., took to producing it very largely and from them came "Rocky Ford," a selection of Netted Gem, but few growers have taken the pains to keep the strain up to its original type, much less to improve upon it, so that it is a pleasure to find a real advance and genuine improvement and this we offer in **Gold-Lined Rocky Ford**. It is the result of several years' careful selection by a progressive grower. The shape of this Melon is ideal, being slightly oval and it is heavily netted over the entire surface. The flesh is as thick at the bloom end as elsewhere, and the flesh of the entire Melon is noticeably thick, fine grained and sweet. The color is green with a gold margin next to the seed cavity. **Gold-Lined Rocky Ford** is superior to ordinary types in shape, size and quality. It is attractive, both as to outward appearance and when cut. The seed we offer is hand saved from selected Melons. Pkt., 15c.; 2 for 25c.

H. G. McGowan, Columbus, Miss., writes (Jan. 10, 1913): "I raised, last season, the largest Egg Plant in this country, from your Livingston's Mammoth Purple and I am ordering all my seeds from you this season, and I hope my results will be as good as they were last season."

E. C. Corbly, of Ga. writes: "Your Globe Tomato is the best in every respect."

Ohio Sugar





Livingston's Orange Watermelon

(See Illustration Above)

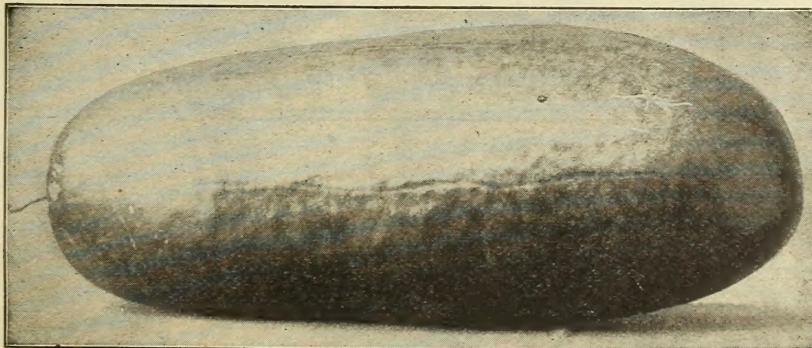
Not a new variety, but not having been catalogued for many years, we consider it worth while to bring it to the attention of our customers, as it is certainly a novelty and at the same time a nice variety for the home garden. The peculiarity of this fine Melon is that when well ripened the inner core separates from the rind, as shown in our picture, which is reproduced from a photograph of a Melon grown at our Kirkersville farms the past season. Frequently one can lift the entire heart of the Melon out of the shell or rind by carefully cutting the Melon rind only, as shown in the picture. In this case the upper half was lifted off the Melon and after the photograph was taken we lifted out the center or fleshy part complete. It will be noticed that the inner portion of the Melon quite resembles an orange after peeling, hence the name. The flesh of this Melon is of a beautiful pink shade and fine quality. It grows to a medium size, is productive and taken altogether, is a very desirable variety. Pkt., 15c.

True Ice Cream

The Great Kitchen-Garden and Home-Market Watermelon

This old standby has too thin a rind for shipping unless packed in straw. We have sold it for many years to our extensive Scioto Valley Watermelon growers, because it has become such a great favorite with Columbus, Ohio, Watermelon dealers, and consumers as well. Few varieties, if any, surpass a **True Ice Cream Watermelon** for quality and productiveness. Ours is not the Peerless Ice Cream, but the original type very carefully selected and is fancy stock. Of good size, medium early, fruit oblong (see illustration); rind light mottled green; bright flesh, and solid to the center; melting and delicious. Free from hard core or stringiness. An elegant sort. Seeds white. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

Ask for prices on larger quantities.



True Ice Cream Melon

Sweetheart

A Great Producer—Splendid for Shipping—Very Popular in the South

Another variety of Watermelon, which should not be set aside on account of the many new varieties recently introduced, for it is hard to beat as to quality and productiveness, and is a splendid shipper. It is grown largely in the South for this purpose. The Melons ripen evenly, the vines are vigorous and bear many Melons of splendid size. Oval, very heavy and with a rind which is very thin but firm. In color it is a light green slightly veined with a

darker shade. The flesh is a bright red, very tender and sweet. Sweetheart remains a long time in good condition after being ripe. We have a splendid strain of seed, which will produce a very uniform crop. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 15c.; lb., 40c.

Ask for prices on larger quantities.

A Grand New Cauliflower



Danish Perfection Cauliflower

Danish Perfection Cauliflower

A new variety which comes to us highly recommended. It is similar in growth to Livingston's Earliest, but is even earlier coming eight to ten days ahead of it, on the introducer's grounds. It is extremely uniform in type, the heads very solid and the introducers state that the leaves fold so closely about the head that it blanches finely with very little trouble on the part of the grower. We believe it is well worthy of trial on the part of those growing Cauliflower. $\frac{1}{2}$ size pkt., 15c.; pkt., 25c.; $\frac{1}{4}$ oz., 80c.; oz., \$2.75; $\frac{1}{4}$ lb., \$10.00.

Dry Weather Cauliflower

(Also known as **Danish Giant and Gilt-Edge.**) This is a fine, large, heavy variety that matures about a week later than Livingston's Earliest Cauliflower. It is especially adapted for growing in dry locations on account of its large leaves, which furnish greater protection to the heads. $\frac{1}{2}$ size pkt., 15c.; pkt., 25c.; $\frac{1}{4}$ oz., 80c.; oz., \$2.75; $\frac{1}{4}$ lb., \$10.00.

Danish Summer Ball-Head Cabbage

If you wish to have the finest Cabbages throughout the season, those offered on this page will meet all your requirements. In Danish Summer Ball-Head we have a variety coming between Copenhagen Market and the regular type of Danish Ball-Head. The season of this new Cabbage is about the same as

Henderson's Succession, it being a mid-season or Summer Cabbage and the good things said about Copenhagen Market can be applied to this new Cabbage of true ball-head type. We hope our customers will grow all three this year and report to us next Fall as to their success. Pkt., 10c.; $\frac{1}{2}$ oz., 40c.; oz., 75c.

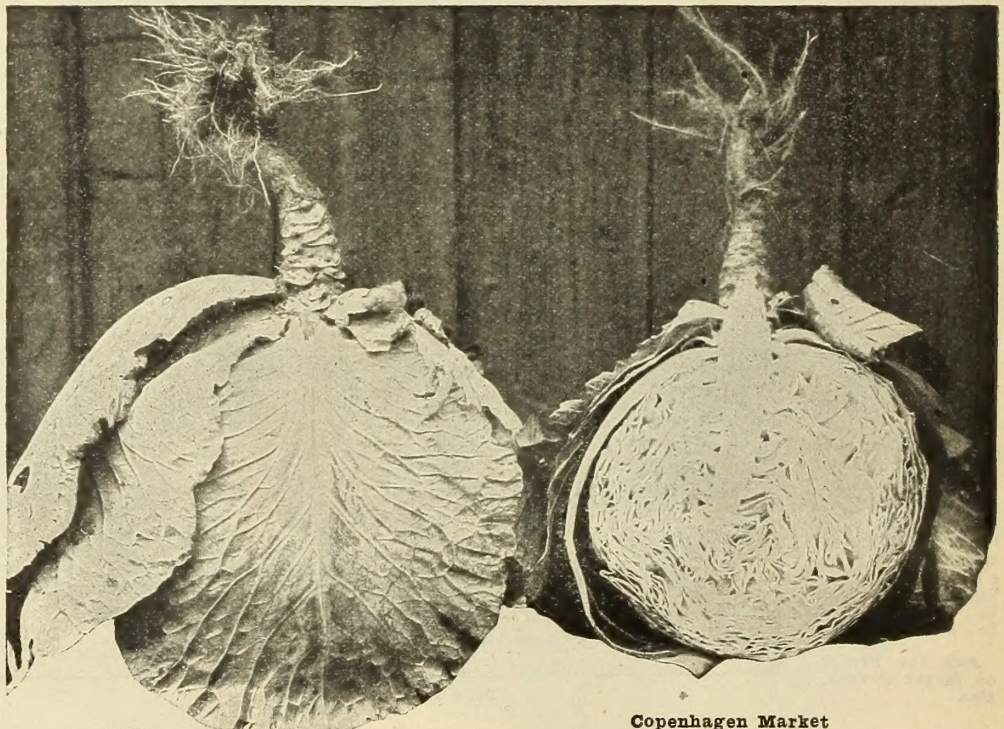
Copenhagen Market Cabbage (An Extra Early Variety of Danish Ball-Head Type)

Everybody who grows Cabbage is familiar with the Danish Ball-Head or Hollander, a Winter Cabbage grown for market more extensively than any other variety. When we say that in **Copenhagen Market** we have almost an exact counterpart except as to season, every one will know at once that we are offering a Cabbage of real merit. Copenhagen

Market is an early Danish Ball-Head. It matures with the Wakefields but is of much larger size. We have tested out many varieties alongside of it and it was not only the earliest Cabbage, but every plant developed a fine solid head—all exceptionally uniform in type, averaging about 8 inches in diameter each way and weighing from 5 to 8 lbs. each. We place Copenhagen Market in the front rank as an early Cabbage and feel sure that every one planting it will be highly pleased with the crop. Pkt., 10c.; $\frac{1}{2}$ oz., 30c.; oz., 50c.; $\frac{1}{4}$ lb., \$1.75.

For other varieties of Cabbages, see pages 26-29.

H. B. Davis, New York Co., N. Y., (Feb. 22, 1913), writes: "I grew Livingston's Globe Tomatoes last year from seed purchased from you and like them better than any variety I have ever grown. I want nothing better."



Copenhagen Market



Livingston's Prolific Yellow Pepper

Livingston's Prolific Yellow Pepper

A Brand New Variety Distinct from all other Peppers

Very Early, Very Productive, Very Mild

Immensely productive of bright yellow fruits of the most convenient size for stuffing. Comes into bearing much sooner than the mammoth sorts, and is the surest crop of all. We secured a small amount of the seed of this variety some years ago from one of our customers and after carefully selecting it so as to produce fruits true to type, we are now offering it for the first time.

On account of the mildness and thick walls of Livingston's Prolific Yellow Pepper, it is one of the finest for use in salads or pickles. You miss a good thing if you don't use this Pepper in your crop for 1914. See back page of cover. Pkt., 15c.

Livingston's

Ohio Crimson Pepper

The Sweetest, Biggest and Best of All

This grand Pepper was introduced by us in 1906 and has established itself in popular favor. Habit of growth robust and stocky, with no tendency to grow an immense plant with little or no fruit. The fruit is fully as large as Chinese Giant. In weight Livingston's Ohio Crimson is much heavier than a Ruby King of the same size. In flavor it is the mildest we have ever known, as the flesh, and even the seeds, may be eaten from the hand without any of the fiery sensation. Growers tell us they have no difficulty in selling all they can grow, customers preferring it to all others for making mangoes. Livingston's Ohio Crimson has been thoroughly fixed in type for years. Our seed is saved from fine, large specimens. Pkt., 10c.; ½ oz., 35c.; oz., 60c.; ¼ lb., \$1.75.

For other varieties of Peppers, see pages 55, 56.

A. C. Wooster, Pa., writes: "I have used absolutely no other varieties of Tomatoes than Livingston's 'True Blue' the past five years, namely, Livingston's Beauty, Magnus, and Stone, the greatest combination known to market gardeners, and the commercial world, taking their principal points into consideration—size, quality, and productiveness, both early and late, and as beautiful as I have had the pleasure of ever growing."

Fred Schmidt, Orleans Co., La., writes as follows: "Your Prickly Seeded Spinach we had a few weeks ago has been sold. It was the finest Spinach in the New Orleans market."

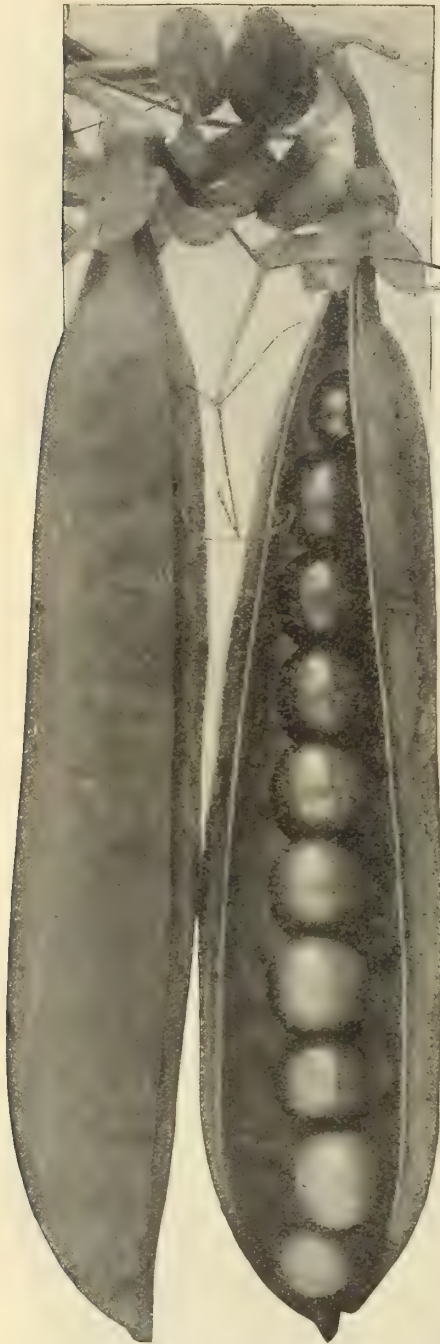


Livingston's Ohio Crimson Pepper

Three Grand New Peas

Quite Content

This variety, which originated in England, has created a sensation by its vigor and size, being by all odds the largest Pea in existence. In spite of its size it possesses all the merits of such varieties as Alderman and Boston Unrivaled, which it resembles, and its season is practically the same. Under favorable conditions the vines grow five to six feet high and the foliage is most luxuriant. The pods which are usually produced in pairs are simply immense, being from five and a half to six inches in length and each pod contains from nine to eleven large Peas, the flavor of which is all that could be desired. It is a good cropper and we feel sure every one will be interested in trying this giant amongst Peas. Pkt., 15c.; pt., 40c.; qt., 65c.; ½ pk., \$1.75; pk., \$3.00; bu., \$11.00.



Quite Content

Pioneer

A new large podded early wrinkled Pea of great promise. The vines are extremely vigorous, growing fifteen to eighteen inches high, dark green and produce a wonderful crop of pods which are filled with big Peas of delicious flavor. The introducers, an English firm, state: "So numerous are the pods that the rows present a most striking appearance." It is one of the earliest Wrinkled Peas, coming in about the same season as Gradus, but a much heavier cropper. Pkt., 15c.; ½ pt., 30c.; pt., 45c.; qt., 75c.; ½ pk., \$2.25; pk., \$4.00; bu., \$15.00.



Pioneer



Laxtonian

Laxtonian

The Dwarf Gradus

Those who object to Gradus on account of its vine will surely be pleased with Laxtonian, for it is quite dwarf and requires no supports whatever. In spite of its low growth it produces fine crops of large pods filled with the most delicious Peas. It is really a dwarf, early Telephone in size, quality and appearance and all lovers of Peas will at once recognize its value, such being the case. In season it is a trifle later than Gradus. It is a distinct variety and has come to stay. We believe there will be a steadily growing demand for Laxtonian, both for home and market. Pkt., 15c.; pt., 40c.; qt., 65c.; ½ pk., \$1.75; pk., \$3.00; bu., \$11.00.

Read Our Special Offer on page 9. These three grand varieties together with a packet of the superb new Pea, "Buttercup."



Buttercup

Buttercup

A Grand New Medium Early Pea

A Packet Free for Trial with Every Order for the THREE Fine Varieties Listed on Opposite Page

It gives us great pleasure to be able to bring to the attention of our customers such a promising new Pea. In this grand variety we have a large podded wrinkled Pea comparing in size and quality with Telephone, Boston Unrivaled and Alderman, but the vines, while very thrifty and vigorous, only grow from 16 to 20 inches high and bear great crops of big pods filled with 8 or 9 deliciously flavored Peas. In season, Buttercup comes between Premium Gem and Telephone, making it very valuable as a market variety, enabling gardeners to have the large podded Peas on the market ahead of the season of Telephone. The growers of this variety have been watching it for several seasons and are very enthusiastic over it. The stock is very limited, so much so that we are unable to place it on the market this year, but we want every one to try it and have put up packets, one of which we will give free to every person ordering the **THREE** varieties on opposite page in any quantity, if they mention it when ordering and will report next Fall as to their opinion of this fine variety. Next year we hope to offer it in quantity.

Little Marvel

We give this variety prominence because we feel too much cannot be said of its merits as an extra-early Pea. **Everybody** who has a garden should plant Little Marvel and those who have already tried it, put it on their lists the first thing, as **one variety they must have**. It is a heavier bearer of larger pods than any of the extra-early wrinkled Peas and nothing surpasses it in quality. Growing only 15 inches in height makes it ideal for the home garden. Large pkt., 10c.; ½ pt., 20c.; pt., 30c.; qt., 50c.; 4 qts., \$1.25.

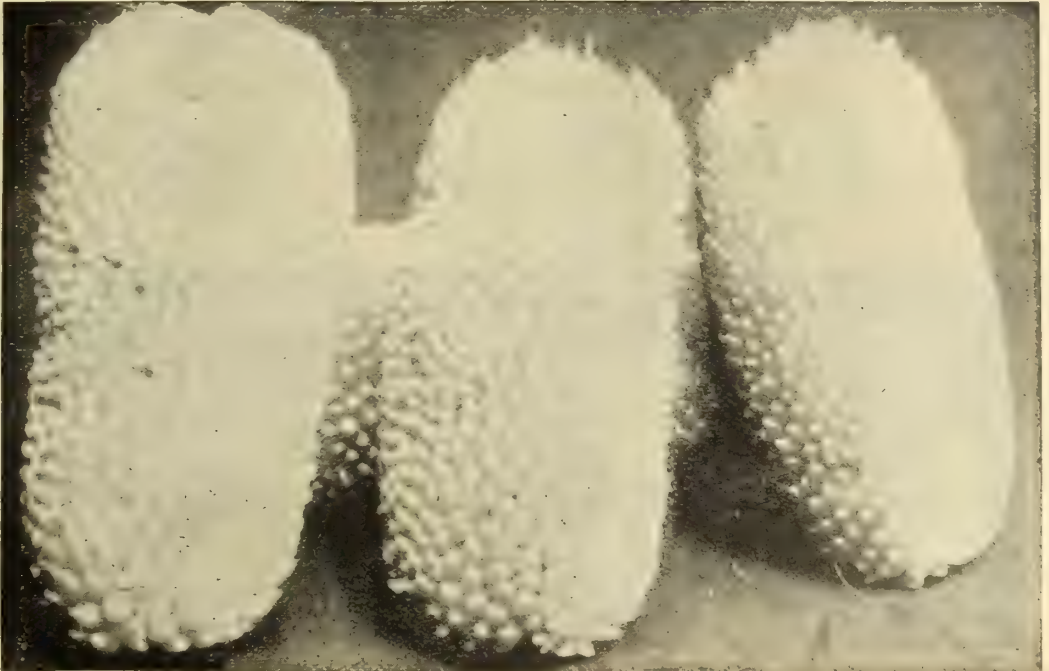


Little Marvel

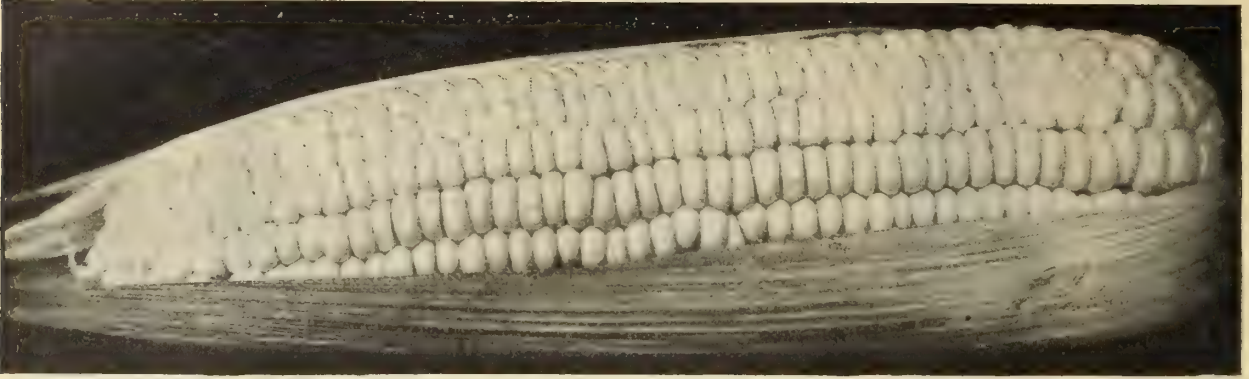
Livingston's New Tom Thumb Pop-Corn

A great many people like to grow Pop-Corn, but there is so much difference in the popping qualities of the various varieties that one hesitates to offer any-ears, peculiar in form, but the grain is very similar to the best strain of White Rice Pop-Corn. The photograph re-

thing in this line unless it has real merit. In this variety we have a dwarf growing Corn, a heavy yielder of attractive ears, produced on this page shows exact size of the ears which run very uniform. Of a pearly white color and the grain is of excellent popping quality and of fine flavor after being popped. We recommend Tom Thumb as a Pop-Corn well worthy of a trial, believing it will give general satisfaction. Per pkt., 10c.; 3 for 25c.



A. J. Twombly, Hardin Co., O., writes (5-19-13): "I have the finest Sweet Potato Plants grown from seed purchased of you."

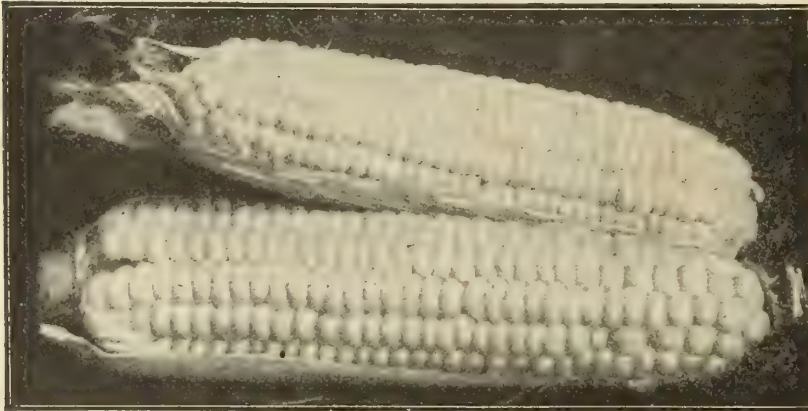


Livingston's Earliest on Earth

Three Exceptionally Fine Varieties of Sweet Corn

Livingston's Earliest on Earth

Records on our trial grounds for the past two years show it to be earliest of all including such well-known extra-early varieties as "Peep O' Day," "Golden Bantam," "Nordheims," "Premo," and all strains of Cory. Planted May 25, 1912, it was ready for market in 62 days. Retaining the sweetness and color of Golden Bantam, it is 7 to 10 days earlier. Having 10 to 12 rows of grains, gaps in the ears, so common in the 8-rowed varieties, are prevented. Length runs 6 to 8 inches in roasting-ear stage. Ears are produced on short stalks and on account of extreme earliness, late Cabbage or other crop may be easily secured on same ground the same season. Pkt., 15c.; 2 pkts., 25c. See back page of cover.



Golden Bantam

Extra-Early Golden Bantam

This is one of the finest things we have run across in years. The ears are from 6 to 7 inches long, eight rowed, filled with broad, sweet, golden yellow kernels of a delightfully distinct flavor. It may be planted with perfect safety from ten days to two weeks earlier than other Sweet Corns. The dry seed is quite solid and is not as apt to rot as that of the softer kinds. It is as early as the Cory and of much

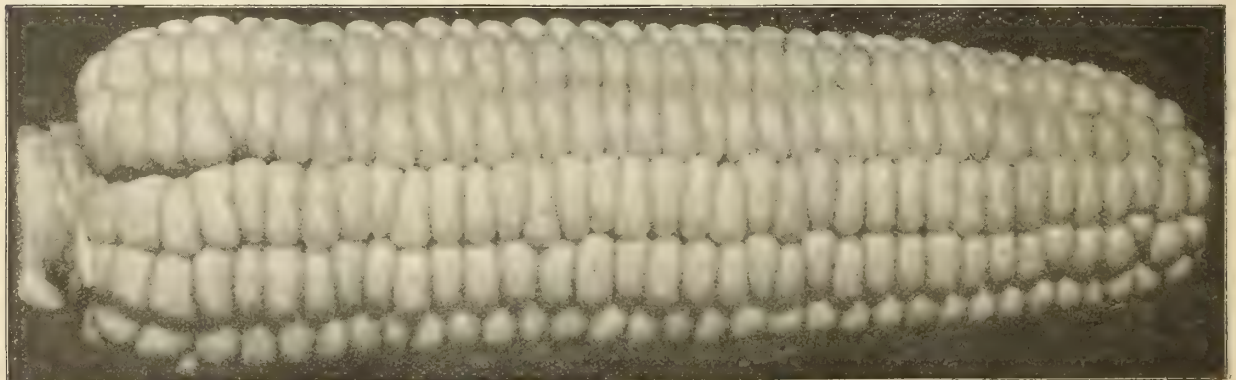
better flavor. It is **always** good, whether planted in the Spring or during the Summer. We confidently advise all lovers of a real good Sweet Corn to give "Golden Bantam" a trial. No description can describe the flavor and do it justice. The way to find out is to try it; and while you are about it, plant enough, or you'll surely be sorry when you begin to eat Golden Bantam. Pkt., 5c.; ½ pt., 15c.; pt., 25c.; qt., 40c.; pk., \$1.10; bu., \$4.00.

Livingston's Early Sugar

A distinct and valuable addition to the early Sweet Corns. As compared with other good early sorts, it has bigger ears with more even rows which are invariably filled well to the tip.

Ears average 8 inches long by 2¼ in diameter, have from 10 to 12 rows of deep, broad, pearly white kernels of delightfully sweet flavor which is not surpassed by any other early kind. Sixty per cent of the stalks carry two splendid, well-developed ears which are usually placed from 2 to 3 feet above the ground. A remarkable characteristic of Livingston's Early Sugar is the exceptionally strong husk which protects the ears well from ravages of insects. Pkt., 10c.; pt., 25c.; qt., 40c.; ½ pk., 70c.; pk., \$1.25; bu., \$4.50.

For other varieties of Sweet Corn, see pages 34 and 35.



Livingston's Early Sugar

We are large growers of select Onion Seed and a trial will convince you that there are no better strains in existence.

"Profitable Onions" is the name of a booklet we issue for all interested in growing Onions. Ask for it. It is free.



Livingston's Special Strains of Onion Seed

Livingston's Ohio Yellow Globe

The Most Perfect Strain of Yellow Globe Onions in Existence; Sure Cropper; Enormous Yields; Long Keeper; Early. Livingston's Ohio Yellow Globe is distinct and attractive, handsome, bright, even color; ripens early and all at once; necks very small. The firm, solid bulbs are excellent Winter keepers, and all that can be desired in size and quality; enormous yields—800 bushels (standard weight) per acre are frequently grown on rich onion land. This is a superb onion for all classes of soil (well-enriched) and especially good for all our muck-lands, on account of its quick maturing qualities. Pkt., 5c.; oz., 25c.; $\frac{1}{4}$ lb., 70c.; lb., \$2.25.

Livingston's Selected Yellow Globe Danvers

In many parts of the country the Danvers Yellow Globe is the favorite, especially in the vicinity of Boston, and if first-class seed, such as we offer, were always furnished by dealers, this sort would be liked everywhere. Our choice seed produces the true globe-shaped Danvers. Unlike California grown seed, which runs too flat, our strain produces the largest possible crops of hard, symmetrical bulbs. The true Buxton type (the Yellow Globe Danvers Onion was originated and perfected by Daniel Buxton, in a little town a few miles from Boston, Mass.) is large in size, an early and abundant cropper, very thick bulb, flat or slightly convex bottom, full oval top, with small neck and brownish yellow skin. Seed from this type is more sure to bottom well than when grown from Onions having too much depth of bulb, or globe-shape. These tend to stray into thick necks or scullions. We are constantly selecting our Yellow Globe Danvers and have it at a high standard of perfection. Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.75.

Southport White Globe

A remarkably fine Onion which we have been growing for years and with our careful system of selection, believe there is nothing finer in this country. Our White Globe is a beautiful silvery white perfectly globe-shaped Onion, remarkably uniform in size and the flesh is firm, fine grained and mild. Pkt., 10c.; oz., 35c.; $\frac{1}{4}$ lb., \$1.00; lb., \$3.50.

Southport Yellow Globe

Produces large, perfectly globe-shaped bulbs of the same size, handsome form and excellent qualities as the White Globe. The color of the skin is brownish yellow, however, while the flesh is white, fine-grained, crisp and mild. Tops die early and uniformly, insuring well ripened bulbs of good keeping qualities. Our strain is selected for slim neck and uniform ripening qualities, and will surely please the most critical. Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.75.

Southport Red Globe

Red Globe is the latest of the Southport Onions, ripening from a week to ten days after the yellows. The bulbs are remarkably uniform in shape, of a rich red color, ripen evenly and yield the largest percentage of marketable Onions. They ripen down hard and solid and keep well. It yields a heavier crop than either the Yellow or White Globe. Our strain of the Red Globe is absolutely unsurpassed, producing uniformly handsome, thin-necked, hard, richly colored bulbs. They measure about $2\frac{1}{2}$ inches in diameter each way, are of true globe-shape and have unusually brilliant skin. Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; lb., \$2.00.

For other varieties of Onions, see pages 48-50.

Livingston's Yellow Beauty Onion

Produces the Hardest, Smoothest, Roundest, Best Keeping Onion Sets of Any Variety Known to the Trade.

(See Illustration to Left)

Hundreds of gardeners have been depending on our Brown Beauty Onion for years. We introduced it in 1900 and prior to this it had been known locally for sometime and very generally grown here. Because of its value we procured a stock and began selecting year after year and improving the strain on our own farms.

Realizing the importance of a lighter colored Onion of the same qualities as Brown Beauty, we set to work to develop it and this year offer to our customers **Livingston's Yellow Beauty**, an exact counterpart of Brown Beauty, except in color which is a bright lemon yellow. The flesh is very fine, firm and mild.

Livingston's Yellow Beauty is a medium-sized Onion, a strong grower producing in one season from the black seed a fine marketable Onion of good appearance.

Livingston's Yellow Beauty is a remarkable keeper. It remains in good marketable condition right up to about the first of June.

Livingston's Yellow Beauty produces the finest, smoothest, hardest, best-keeping sets of any Onion grown. Market gardeners everywhere will be quick to recognize the merits of this excellent new Onion and we anticipate a very large demand for it once its merits become known. We have made the price very low for a new variety and trust that every Onion grower will try at least a packet of this splendid variety, knowing that if once grown it will be purchased regularly as one of the really good things in the vegetable line. Pkt., 10c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.

"Profitable Onions"

Is the title of our Onion Booklet. It tells all about the old and new method of growing large Onions from seeds, describes the finest strains of American Onions procurable and shows how we produce them. Ohio-grown Onion Seed is the finest that can be grown. Rich soil, ideal climate, constant selection and careful methods in seed production give our Onion strains the characteristics not found in the common article. Whether you raise Onions for profit or for home use, you should plant Livingston's Ohio-grown Onion Seeds for best results with this crop. Read "Profitable Onions" and learn some of "the reasons why." Free to all Onion growers.

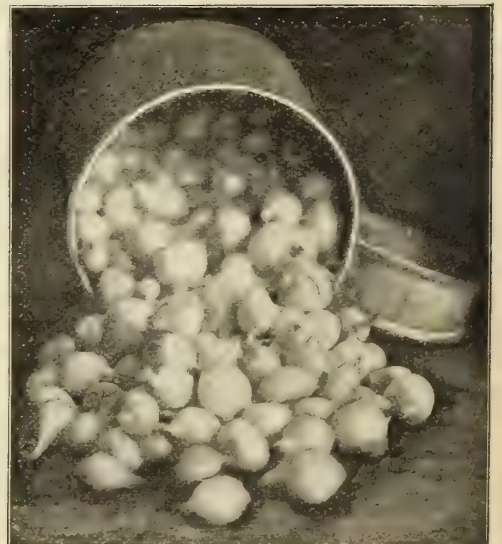


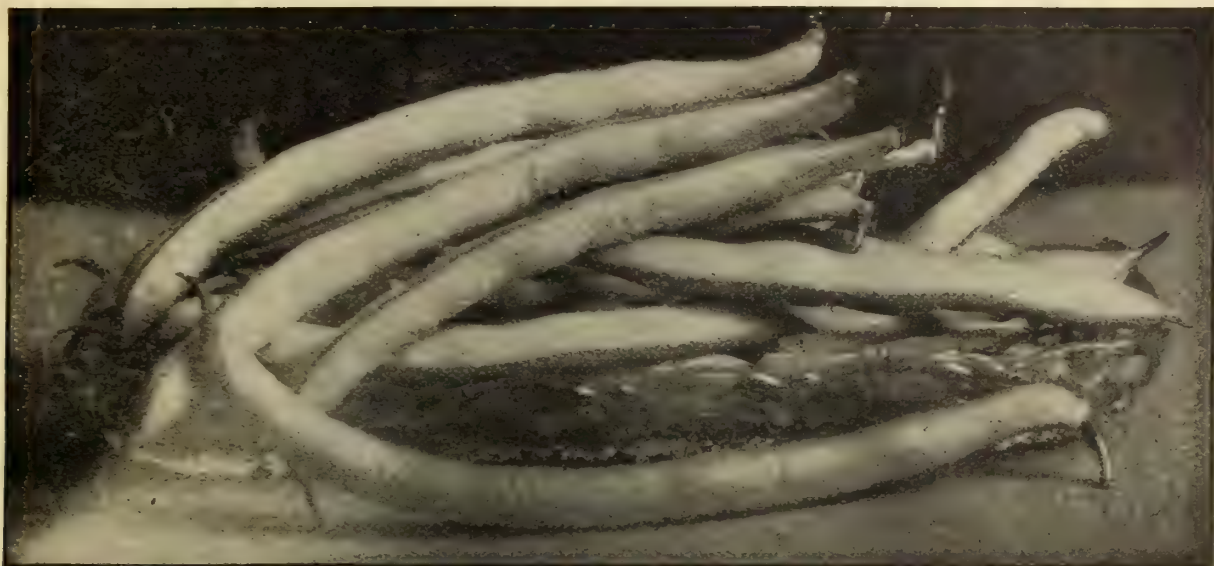
Indiana Silverskin

A very popular white Onion of mild flavor and fine appearance. We do not list it here as a novelty for it has been grown for years, but we give it this prominence owing to its merits for growing white Onion Sets and for pickles and for early green bunching Onions. It is also used for market as a large, white Onion. You will find it a reliable variety for Fall and early Winter use, but its great merit is in its value as sets for which purpose large quantities of seed are sold each year. If you need seed for white sets, try our selected stock of Indiana Silverskin. When allowed to grow to full size it produces a silvery white, flat bulb, of good size and substance. Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.75.

Why Grow Onion Sets

We give the above varieties prominence as valuable for Onion "Sets" from which green bunch Onions can be had in the Spring in half the time it takes to produce them from seed. Hundreds of pounds of seed are sown each season for sets, hence the importance of having varieties especially adapted for this purpose. Growers will make no mistake in ordering the above. Let us have your orders early.



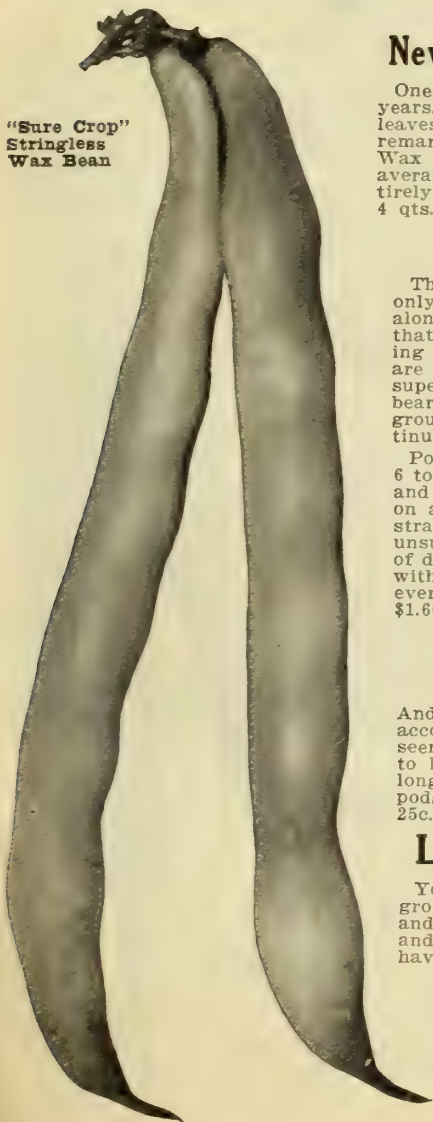


Livingston's Hardy Wax

New "Sure Crop" Stringless Wax Bean

One of the most valuable new sorts produced in recent years. Plants are very thrifty and hardy. Thick, leathery leaves resist blight admirably and help this sort to stand a remarkable amount of dry weather. Sure Crop Stringless Wax is the Bean "par excellence" for dry sections. Pods average 6 inches long, are flat, thick and fleshy and entirely stringless. Pkt., 15c.; ½ pt., 20c.; pt., 30c.; qt., 55c.; 4 qts., \$1.20; pk., \$2.00; bu., \$7.00.

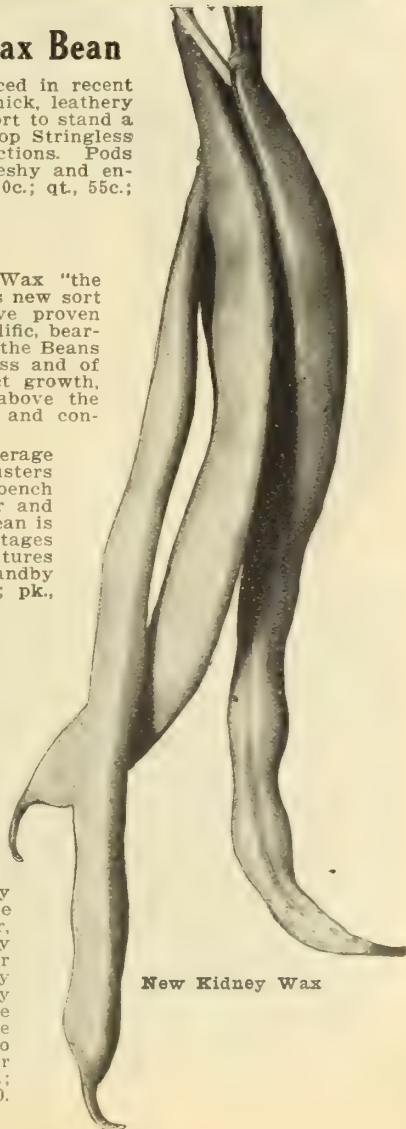
"Sure Crop"
Stringless
Wax Bean



New Kidney Wax

Those who consider Wardwell's Kidney Wax "the only market gardener's bean" should try this new sort alongside. Comparative trials with us have proven that New Kidney Wax is not only more prolific, bearing almost two pods to Wardwell's one, but the Beans are also longer, handsome, entirely stringless and of superior quality. Plants are of robust erect growth, bearing the loads of beautiful pods well above the ground. They are healthy, blight-resisting and continue to bear a long time.

Pods are flat, but thick and fleshy. They average 6 to 7 inches in length, are borne in large clusters and make the finest of shows on the market bench on account of their rich lemon-yellow color and straight, handsome shape. In quality this bean is unsurpassed. Brittle and stringless at all stages of development, meaty and of fine flavor. Matures with Wardwell's, but will outyield this old standby every time. Pkt., 10c.; pt., 30c.; qt., 50c.; pk., \$1.60; bu., \$6.00.



New Kidney Wax

Bountiful

A New Stringless Green Pod Bean

And one which every one should grow on account of its many valuable qualities. It seems practically immune to rust, begins to bear early and continues over a very long period to produce a great crop of pods of highest quality. Pkt., 10c.; pt., 25c.; qt., 40c.; pk., \$1.40; bu., \$5.00.

Livingston's Hardy Wax

You can't find a stronger or more healthy grower than this variety. It resists disease and grows in spite of unfavorable weather, and when it comes to quality you simply have to admit that you never tasted a finer bean in your life. We made pretty strong claims for Livingston's Hardy Wax when we first introduced it, but we haven't taken back one word that we said and our customers have added to our statements of its value either for market or home garden. Pkt., 10c.; pt., 30c.; qt., 50c.; pk., \$1.50; bu., \$5.50.

Detroit Dark Red Beet

An exceptionally fine variety which is valuable alike for home use and market on account of its uniformly deep rich red color, making it especially fine for canning. The tops are small and upright in growth and the roots medium sized, globular and always of a fine deep red. The quality is fine, the roots retaining their crisp, fresh condition well on through the season. If those who grow Beets could have seen our fields the past season, they would at once recognize the superiority of our stock, and we recommend this variety as being superior in uniformity of size, shape and color.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 45c.; lb., \$1.25.



Detroit Dark Red Beet

Beets are one of our great Specialties and we grow acres of them for seed at our Kirkersville farms, first growing the roots from seed, holding these over and then making a very careful selection of the roots in the Spring, when ready to plant. This we have been doing for years, which enables us to offer a very superior strain of Beet Seed. Particularly is this true this season, as we were fortunate in harvesting a very good crop. By handling the entire crop right on our own farms with experienced help it enables us to offer to the purchaser a superior stock of fresh seed carefully rogued and true to type.

Two Superb Early Long Radishes

Livingston's Pearl

This variety is very early and might be called half-stump-rooted. It is of a most beautiful pearly white, of waxy appearance; very firm and solid. After it has reached its very best condition it remains eatable for fully two weeks before showing signs of going to seed or becoming woody. When properly grown in greenhouse or hotbed, this Radish has a smaller top than when grown in the open field. (See illustration.)

All things considered, we pronounce it the best general purpose white market Radish in existence; splendid for the home garden.

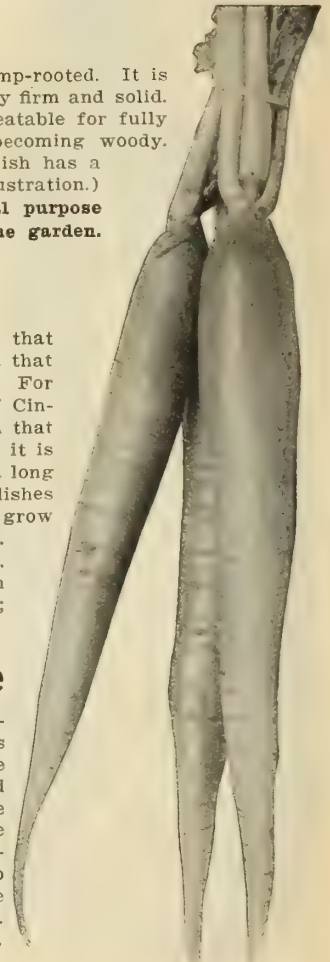
Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 80c.

Cincinnati Market

This we consider the very best early long red Radish that grows. It is not a new variety, but possesses such merit that we feel warranted in placing it in our specialty pages. For many years it was grown by gardeners in the vicinity of Cincinnati, largely under glass, and had such a fine reputation that we introduced it to the general trade with the result that it is now very generally grown wherever there is demand for a long Radish. The tops of this variety are so small that the Radishes can be grown touching each other in the rows. The roots grow perfectly straight and smooth and 6 to 7 inches in length. The skin is a bright scarlet, very thin, and the flesh crisp, brittle and of fine flavor. No one can make a mistake in buying Cincinnati Market Radish. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 65c.

Livingston's Crisp-as-Ice Lettuce

Another fine vegetable which we had the pleasure of introducing several years ago and for which the demand is steadily increasing. Crisp-as-Ice is an attractive Lettuce of the cabbage type, producing heads which are solid and of large size and so tender and crisp as to warrant the name. The leaves are glossy, thick and brittle and are nicely curled which give them a fine appearance. The outside leaves are tinted with dark bronze, adding much to their appearance. When the heads are cut open they have a rich creamy yellow heart and make a delicious salad. Crisp-as-Ice is good alike for home garden and market use. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.75.



Flowers You Should Grow

On this and the following three pages will be found some very choice strains of popular flowers, varieties which are easily grown and should be in every garden. We offer them in our Specialty list as being worthy of special mention.

Delphinium Azure Fairy

An annual variety of Larkspur and a most beautiful shade of blue. It grows about 12 inches high and is covered with flowers for a long period. It is very hardy and satisfactory in every way. 1738—Pkt., 15c.

Verbena Helen Willmott

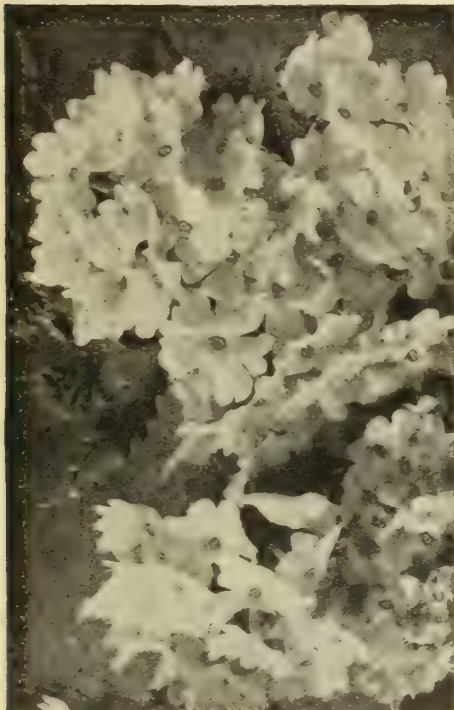
This is a large flowered Verbena of very attractive color being a bright salmon rose with a white eye. It comes practically true from seed, though occasionally there is a plant not true to color, but all are very fine. This variety is a distinct color in Verbenas and should be very popular. 2675—Pkt., 25c.

Papaver Umbrosum

Not a new Poppy, but one which has been lost sight of through the many new varieties introduced, and yet is as beautiful as any of them. It is a bright vermilion with a deep shining black spot at the base of each petal. 2312—Pkt., 5c.

Papaver Glaucum

Often called the Tulip Poppy, because of its resemblance to the big scarlet Gesneriana Tulip. It is a very brilliant red in color, 3 inches across. The foliage is a greyish green and very pretty. 2313—Pkt., 5c.



For
General
List of
Flower
Seeds see
Pages 84
to 113
inclusive.



Delphinium Azure Fairy

Linum

Everybody has admired the common Flax with its beautiful blue flowers, but it is of no value in the garden. In **Linum Grandiflorum** we have an annual variety of flax with large, brilliant scarlet flowers about three times the size of the regular flax. The plant grows much the same as this and blooms practically all Summer. It is very easily grown as the seed can be sown the same as any of our common flowers. **Linum Perenne** is a hardy perennial, an evergreen plant with the fine soft foliage and beautiful sky blue blossoms of our common flax. It does not flower until the second year, but once established, blooms from early June throughout the entire Summer, producing flowers the size of a half dollar. 1939 **Linum Grandiflorum**—Pkt., 5c. 1940 **Linum Perenne**—Pkt., 5c.

Verbena
Helen
Willmott



Sweet William

Sweet William Sutton's Scarlet

Sweet William is a popular old-fashioned flower, but those who have not grown the newer types introduced of recent years have no conception of the beauty of this flower. Not only have we much larger heads of bloom and vastly larger individual flowers, but there are colors unheard of in the old type, and such is "Sutton's Scarlet." The color of this variety is an intense scarlet similar to a Grenadin Carnation. 2649—Pkt., 15c.

Lunaria Biennis (Honesty)

Or, as it is popularly called, "Honesty," is a plant we seldom see now, though many enquire for it and it used to be largely grown. It has pretty purple flowers, but it is most prized for its silvery, flat, moon-shaped seed pods which succeed them. These are used largely for house decoration, the same as Everlasting flowers, as they last through the season when dried. 1916—Pkt., 5c.

Livingston's Fancy Strains of Asters

We give our Asters special prominence, for we have the finest seed of the best varieties in existence. We hope every one will secure seed of some of the following varieties, as we feel sure they will be pleased with the results.

Semple's Giant Late Branching

Without question the finest Aster grown. It has size, vigor, fine stems, beauty of form and varied color to recommend it and, while not so early as many of the other varieties, it stands at the head of the list both for the home garden and as a florist's flower.

1400 Semple's Giant Finest Mixed Colors—All shades and colors. Pkt., 10c.; ½ oz., 20c.

1401 Semple's Giant Lavender—Pkt., 10c. **1402 Semple's Giant Royal Purple**—Pkt., 10c. **1403 Semple's Giant Pure White**—Pkt., 10c. **1404 Semple's Giant Crimson**—Pkt., 10c. **1405 Semple's Giant Shell Pink**—Pkt., 10c.

Violet King

The habit of growth of this Aster is similar to the Branching type, growing vigorously about 2½ feet high; has long, stiff stems. In form the flower is entirely new and distinct from any other variety; round, full and very large, many of the flowers measuring from 4 to 5 inches in diameter. Petals resemble the quilled varieties, but are much longer and broader.

1380—Pkt., 10c.

Mikado Pink

In type Mikado Pink belongs to the Comet class. Petals are narrow, very long and gracefully reflexed. The outer petals show to their full extent while gradually toward the center they bend and curl across each other, forming a perfectly double flower. It is a fine shade of shell pink, and while it belongs strictly to the Comet class, the strongly growing, freely branching, long-stemmed plants quite resemble the branching sorts. Vick's Mikado Pink comes into bloom between Queen of the Market and Branching Asters. Enables growers to have pink Asters throughout the entire season. Pkt., 10c.

Invincible

Very popular in many sections. Mid-season variety; similar in form to late branching; flowers a couple of weeks earlier. **1435 White, 1436 Light Rose, 1437 Lavender, 1438 Purple, 1439 Crimson**—Each, 10c. pkt.

Royal

A type of Aster very much like the late branching, only coming shortly after Queen of the Market. It is a vigorous grower, double and satisfactory in every way. **1486 White, 1487 Purple, 1488 Shell Pink, 1489 Lavender**—Each 10c. per pkt.

Viola Cornuta

Every one grows Pansies and with the multitude of new types and colors offered one is apt to lose sight of a plant which merits vastly more attention than it receives, and being "First Cousin" to the Pansy, it not only resembles it, but can be used everywhere that the Pansy is and in a way is more satisfactory. We allude to the Viola Cornuta or Tufted Pansy. The old-fashioned "Johnny Jump Up" is now rarely seen, but in the Tufted Pansy we have a glorified type of it, more beautiful in every way, much larger, more vigorous and showy. In England the Tufted Pansy is very largely used for bedding and borders and it should be here, for it will continue to flower under conditions that cause the Pansy to dry up, and it flowers so profusely when conditions are at all favorable that we think it ought to be more often seen even if one can't get the great variation seen in the Pansy. Give it the same treatment as you would Pansies. We offer **2231 White, 2233 Yellow, 2232 Blue, and 2230 Mixed**, at 10c. each per pkt.

Schizanthus or Butterfly Flower

An annual flower which has been known for many years, yet has not been given any prominence until of late, when new and improved varieties have been introduced. It is popularly called the "Poor Man's Orchid," and truly merits the name, for we believe there is no other flower which so closely resembles the Orchid, except in size, and not a single annual flower that grows that is easier to produce than Schizanthus. It grows from a foot to eighteen inches tall, with fine fern-like foliage, begins to flower early and produces masses of oddly marked and queerly shaped blooms in various shades of blue, purple and pink and some pure white. It is the prettiest thing that can be used in connection with Sweet Peas and such flowers, on account of its graceful sprays and light feathery effect.

2427 Schizanthus Mixed—5c. per packet.

2428 Schizanthus Wisetonensis—A new large-flowering type—20c. per packet.



Flowers for the Hardy Garden

The perennial flowers, those which do not require starting from seed each year, and which live from year to year with little or no protection during the Winter, have become very popular, but it costs a good deal to purchase sufficient plants to furnish the garden, and as some of our choicest varieties are easily raised from seed, we are this year offering a collection of strictly hardy flowers.

Why not have a permanent garden? Grow the plants yourself. All the varieties we offer will flower the second year from seed and after that you will each year have a wealth of bloom at a season when few of the annual flowers are out. They will furnish you flowers for house decoration as well as beautify your garden.



English Larkspur

Delphinium Hybrid

This is the English Larkspur, very largely planted in hardy borders and a beautiful flower either in the garden or for house decoration. Grows about four feet tall with long spikes of flowers in various shades of blue. One of the grandest perennials in existence. Pkt., 25c.

Pyrethrum Hybrid

Often called "Pink Daisies." It is a large daisy, coming in all shades from white to rose, deep pink, and rich crimson. A splendid flower for cutting, very free flowering and hardy. Hundreds of plants are sold every year, yet it is as easily raised from seed as an aster. Pkt., 15c.

Papaver Orientale

Who does not admire the immense flowers of the Oriental Poppy? There is nothing more brilliant in the garden and it is sure to grow and flower freely. Pkt., 10c.

Scabiosa Caucasica

Everybody knows "Mourning Bride." This is a hardy variety of it, a beautiful light lavender shade. It flowers constantly throughout the Summer. Pkt., 10c.

Echinacea Purpurea

A plant which will stand more dry weather and harsh treatment than anything we know of and yet is a beautiful flower for the hardy garden. Extremely hardy and increases in beauty each year. Grows about 3 feet tall and produces quantities of pink daisy-like flowers with large brown cone in the center. Popularly known as "Cone Flower." Pkt., 10c.

Dianthus Barbatus

("Sweet William")—Everybody knows this old favorite, and we are offering a strain of seed which will produce the newer, large-flowered varieties which are so superior to the old-fashioned type. Pkt., 10c.

Dianthus Plumarius

("Clove Pinks")—You used to have them, but they have been lost track of with the multitude of newer flowers offered of late years. Our seed is from a collection of large-flowered varieties in many colors and all very fragrant. Pkt., 10c.

Aquilegia Haylodgensis

Many people know the old-fashioned variety of this under the name of Honey-suckle or Columbine. We have secured seed which will produce beautiful long-spurred flowers in many colors, being Hybrids of the Rocky Mountain blue Columbine, the State flower of Colorado. Pkt., 10c.

Chrysanthemum Maximum

The big white "Shasta" Daisy. Not the true Shasta, as the latter does not appear to be hardy in all sections of the country, and this variety is, and it also flowers longer than the Shasta, while the flowers are identical. Pkt., 10c.

Campanula Persicifolia

One of the hardiest of the bell flowers. Often called "Peach-Leaved" Bell flower on account of the form of the leaves. It flowers for a long period during the Summer and makes a very pretty spot in the hardy border when in bloom. Should be divided and reset every other year. Pkt., 10c.

Special Offer

In order to give our friends a chance to try these beautiful varieties we are making an exceptionally low price of 75 cents for the entire collection, or any 4 ten-cent pkts. for 25c.

A Word in Regard to Growing Perennials from Seed

The seeds of most hardy plants are slower in starting than the annuals so that it is important that the ground be kept moist until they come up. An ideal place to start them is in a cold frame. You can then control the moisture, the rays of the sun and the rain and are almost sure of having a fine crop of plants. All of the plants described with the exception of the Oriental Poppy should be transplanted as soon as large enough to handle. The poppy should be sown thinly and left until August before being moved. It is quite sensitive and should not be moved when in full growth, but can readily be transplanted when dormant.



Meehan's Mallow Marvels

(See illustration to left)

No flower which has been introduced of late years is finer than these new Mallows. Many people know and admire our native Marsh Mallow, a plant which grows very generally throughout the Eastern States and as far West as the Mississippi, in low, marshy places, the flowers being mostly rose pink, sometimes white, and the shape of a Hollyhock. This is one of the plants used in the production of the "Mallow Marvel." The other is a Southern variety of Hibiscus, producing much more brilliant flowers than our variety, and larger but not hardy. The result of hybridizing is the new Mallow Marvel, which up until quite recently could only be procured by purchase of plants.

The flowers of this new type are remarkable for their size (8 to 12 inches in diameter) and their brilliant colors, running from pure white through shades of pink to red and crimson. The plants, when once established, grow from 5 to 7 feet high and flower from mid-Summer to frost. They are absolutely hardy everywhere, and, while they die down to the ground each Winter, like all other herbaceous perennials, grow rapidly and soon make a fine showing.

We are glad to be able to offer seed of this grand plant in mixed colors. Sow early in hotbed or cold frame and transplant soon as large enough or seed can be sown in the open ground about the 15th of May. The following season they will bloom and give a grand display of flowers. Don't fail to order at least one packet of these wonderful flowers. 1994—Pkt., 15c.; 2 for 25c.

New Cardinal Climber

A new annual climber of the Ipomea or Morning Glory family. It is a wonderfully vigorous grower, climbing 20 feet in a season from seed sown in the Spring. The foliage is beautifully cut and is very graceful. The flowers are very brilliant being a fiery scarlet, the individual blooms being about 1½ inches across and produced in clusters of 5 to 7. It flowers very profusely the entire Summer, and bids fair to take a place as one of our best annual climbers, having attracted much attention wherever grown. It should be planted in a warm sunny location in good soil and will then give a good account of itself. 1598—Pkt., 20c.; 2 for 35c.

Plumed Celosia or Cockscomb

Sutton's Giant

The ordinary varieties of Celosia are very ornamental in the garden, but in these new varieties we have something of exceptional value as bedding plants. Hardy, easily grown and wonderfully showy, Sutton's Giant Celosias are highly recommended for garden decoration, and for cutting, the fluffy plumes making beautiful and lasting bouquets. The seed being small should be planted where it can be kept moist until it comes up, when there will be no further difficulty in growing the plants. We offer the following fine varieties:

1605 Giant Scarlet—Pkt., 15c.; 1606 Giant Yellow—Pkt., 15c.; 1607 Giant Mixed—Pkt., 15c.

Annual Chrysanthemum

Northern Star

There are not nearly as many of these annual Chrysanthemums grown as there ought to be. They are so easily grown and are so satisfactory in every way that we call particular attention to one variety of exceptional merit. **Northern Star** is as readily grown as a Zinnia or Aster and is just as hardy. It produces large ivory-white flowers with a sulphur center, the flowers in size and form resembling a Shasta Daisy, and they are very suitable for cutting. The plants bloom early and for a long season, growing about 18 inches tall and forming symmetrical bushes. Try this variety and you will be well pleased. 1654—Pkt., 10c.



Cardinal Climber



Partial View of Greenhouses and Trial Grounds



Livingston's True Blue Vegetable Seeds



In this department may be found all that is best in Vegetables—except our specialties for 1914, which will be found on pages 3 to 18. We have rigidly excluded all worthless varieties, omitted an endless number which are out of date, and avoided the offering of same varieties under different names. General instructions as to planting and growth, while reliable, will not apply equally to all sections, as some allowance must be made for difference in latitude. Cultural directions will be found on most of our packets. We also send free to customers, on application, a very helpful leaflet—*The Vegetable Garden*—which contains valuable information.

Seeds, Postpaid, by Mail

We pay the postage on all Vegetable and Flower Seeds offered in this list by packet, ounce, quarter-pound, pound, pint or quart, unless otherwise noted. Half-pounds are supplied at pound rates, half-pecks and half-bushels at peck and bushel rates, unless otherwise noted. We guarantee safe delivery by mail, postage prepaid.

Special Notice

Many people request seeds sent by Parcel Post. The Parcel Post rates do not apply on seeds, bulbs or plants. The old rates of 8c. per pound, 8c. per pint and 15c. per quart are still in effect. The weight limit is now 11 pounds, except in zones 1 and 2, in which the weight limit is 20 pounds.

Seeds by Express or Freight

When seeds are ordered sent by express or freight, 8 cents for a pound, 3 cents for a pint, and 15 cents for a quart may be deducted from the prices in this catalog for these quantities, as by express or freight always means that the purchaser pays transportation charges when shipment is received.

Peck, Bushel and Barrel Lots—Express or freight charges must be paid by purchaser when shipment is received.

Market Gardeners or Other Large Planters

Requiring larger quantities of Seeds than are here quoted are requested to write for our **Special Price List**. This list we cannot send to private gardeners, even if they ask for it, as it is intended only for those who grow for market. In writing, please state whether you are a Market Gardener, Florist or Dealer in Seeds.

Spargel

Asparagus

Esparragos

It can be grown in any good garden soil, but does best in sunny, moist soil. To grow plants from seed, sow in drills about one inch deep in rows one foot apart. Keep the soil mellow and free from weeds; during the Summer thin out, and the following Spring plants may be set in beds six feet wide, with a two-foot path each side; set the plants one foot apart each way, four inches below the surface. Annually, after cutting, the bed should be given a liberal top dressing of manure, ashes and salt, which should be thoroughly cultivated into the soil. As soon as the tops turn yellow in the Fall they should be cut and removed from the beds, and just before Winter cover the beds with four inches of coarse straw manure or leaves, which should be removed in the Spring. A bed 6x40 feet is ample for an ordinary family, and when well established is good for 20 years. One ounce of seed will sow 60 feet of drill. About 400 plants to the ounce. **Asparagus Roots**, see p. 70.

Carolina Queen

This comes from the Carolinas, where Asparagus has been grown as a special market crop for a long period of time. **Earliness, Great Productive Power, Immense Stalks when Sprouting, Rust Resistance, Superb Quality, Handsome Appearance**, are some of its qualities. The stalks are very pretty, being creamy white with pink heads. The flavor is delightful. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.

Palmetto—Large, dark green variety, of vigorous growth, having pointed tips. Early. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 55c.

Conover's Colossal—Large and rapid grower of excellent quality. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 45c.

Columbian Mammoth White—A distinct variety producing shoots which are white and remain so as long as fit for use. Vigorous and robust in habit; grows large shoots. Needs no earthing up. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 65c.

Early Argenteuil—Earlier, larger and better than the good old Colossal. Flavor superb. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 65c.

Donald's Elmira—Good reliable, mammoth variety of very fine quality. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 65c.

Leaflet with Cultural directions free to customers. **Asparagus Roots**, see page 70.

Artichoke

Artichoke

Alcachofa

Large Green Globe—This Artichoke is grown for its flower heads, which are cooked like Asparagus. Hardy and easily cultivated. The seed can be sown early in April in a rich seed bed in drills one inch deep and 12 inches apart, thinning when up, to 4 inches apart. Protect in Winter with a slight covering. The second season they form heads. Once established, they will continue bearing for years. Pkt., 5c.; oz., 25c.; ¼ lb., 80c.; lb., \$3.00.

Jerusalem Artichoke Roots—For description and prices, see Farm Seed List, page 79.

Livingston's Extra Selected Beans

Our strains of Beans are exceptionally fine and gardeners can buy them with every assurance that they will come uniformly true to type. They are produced by the best growers in this country, who make a specialty of Beans and Peas. The fields are carefully rogued each year and the seed is all hand picked, so that we offer nothing but first-class stock in every particular.

Packets of Beans, put up to sell at 5c., postpaid, contain too small a quantity. We, therefore, put up **Liberal Sized Packets at TEN CENTS**. Pint and Quart prices include postage. If to be sent by express or freight, at buyer's expense, deduct 15c. from quart, or 8c. from pint prices.

Half-Pecks and Half-Bushels at Peck and Bushel prices, except as noted; these are always sent by express or freight, buyer paying transportation charges. **One quart will plant 100 feet of drill; 1 to 2 bushels to the acre.**

Habas nanas Dwarf or Bush Beans Buschbohnen Wax Podded Varieties

Livingston's Hardy Wax

The finest, most prolific and most palatable Wax Bush Bean in cultivation. **Hardy Wax** is unusually robust and healthy. The strong foliage resists disease and unfavorable weather conditions perfectly, and the plants show no constitutional weakness. **Hardy Wax** is prolific. Whether sown during Spring, Summer or Fall, it invariably produces loads of handsome, waxy, lemon-yellow pods, about 5 inches long. The pods are solid, meaty and absolutely stringless. **Hardy Wax** takes the prize for quality. The pods are tender at all stages of growth and of delightful flavor. They are of great beauty, stand shipping well, and this, in connection with the prolific character of this sort, makes it pre-eminently a market gardener's favorite. Pkt., 10c.; pt., 30c.; qt., 50c.; pk., \$1.50; bu., \$5.50.

New "Sure Crop" Stringless Wax Bean

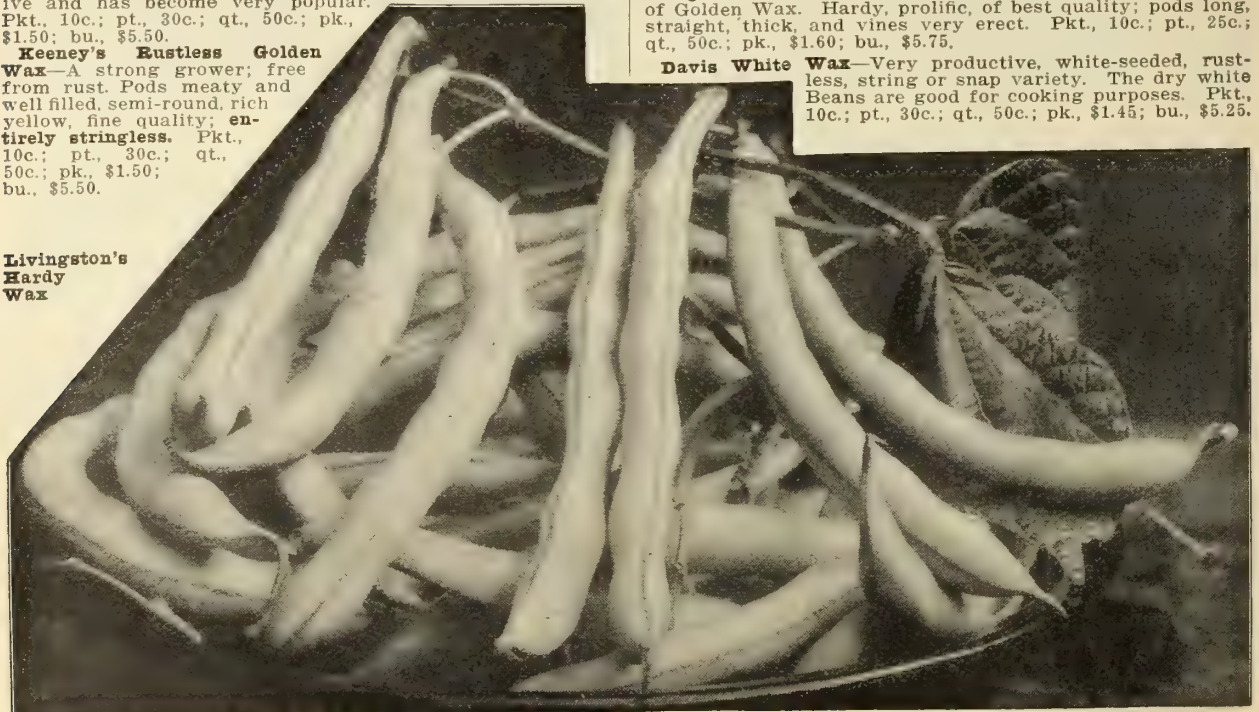
Plants are very thrifty and hardy. Thick, leathery leaves resist blight admirably and help this sort to stand a remarkable amount of dry weather. **Sure Crop Stringless Wax** is the bean "par excellence" for dry sections. Pods average 6 inches long, are flat but thick and fleshy and entirely stringless. As a free and continuous producer of handsome, light yellow pods of finest quality, **Sure Crop Stringless Wax** will prove a welcome addition to this type of Beans. Pkt., 15c.; ½ pt., 20c.; pt., 30c.; qt., 55c., postpaid. By express, 4 qts., \$1.25; pk., \$1.90; bu., \$7.00.

Wardwell's Kidney Wax—Immensely productive. One of the handsomest Wax Podded Beans. Early; vine medium, erect, hardy, productive. Pods long, broad, flat, brittle and of a delicate waxy yellow. Very attractive market sort. Pkt., 10c.; pt., 30c.; qt., 50c.; pk., \$1.65; bu., \$6.00.

Round Pod Kidney Wax—Pods are round. Plants grow strong and sturdy, with long, round, handsome stringless pods of large size, very solid and full of meat; crisp, brittle. Wonderfully early and productive and has become very popular. Pkt., 10c.; pt., 30c.; qt., 50c.; pk., \$1.50; bu., \$5.50.

Keeney's Rustless Golden Wax—A strong grower; free from rust. Pods meaty and well filled, semi-round, rich yellow, fine quality; entirely stringless. Pkt., 10c.; pt., 30c.; qt., 50c.; pk., \$1.50; bu., \$5.50.

Livingston's
Hardy
Wax



New Kidney Wax

Those who consider **Wardwell's Kidney Wax** "the only market gardener's Bean" should try this new sort alongside. Comparative trials with us have proven that **New Kidney Wax** is not only more prolific, bearing almost two pods to **Wardwell's** one, but the beans are also longer, handsome, entirely stringless and of superior quality.

Pods are flat, but thick and fleshy. They average 5 to 7 inches in length, are borne in large clusters and make the finest show on the market bench on account of their rich lemon-yellow color and straight, handsome shape.

In quality this Bean is unsurpassed. Brittle and stringless at all stages of development, meaty and of fine flavor. **Matures with Wardwell's**, but will outyield this old standby every time. Pkt., 10c.; pt., 30c.; qt., 50c.; pk., \$1.65; bu., \$6.00.

Livingston's Yellow Pencil Pod

Although hardy, it is stringless, tender and of fine quality. Pods smooth, perfectly round and as straight as a lead pencil. In points of vigor, hardness and prolificacy it is unsurpassed. Pkt., 10c.; pt., 30c.; qt., 50c.; pk., \$1.65; bu., \$6.00.

Prolific German Black Wax—Pencil Pod Strain—Pods are long, fleshy, round, waxy yellow, solid and tender; very early. Pkt., 10c.; pt., 30c.; qt., 50c.; pk., \$1.65; bu., \$6.00.

Brittle Wax—An extra-early hardy variety, fine quality; long, round, meaty pods of rich golden yellow; immensely productive. Pkt., 10c.; pt., 30c.; qt., 50c.; pk., \$1.50; bu., \$5.25.

Currie's Rust-Proof Wax—Pods long, flat, tender; early productive. Pkt., 10c.; pt., 25c.; qt., 45c.; pk., \$1.40; bu., \$5.00.

Improved Golden Wax—Grennell's. One of the best strains of Golden Wax. Hardy, prolific, of best quality; pods long, straight, thick, and vines very erect. Pkt., 10c.; pt., 25c.; qt., 50c.; pk., \$1.60; bu., \$5.75.

Davis White Wax—Very productive, white-seeded, rustless, string or snap variety. The dry white Beans are good for cooking purposes. Pkt., 10c.; pt., 30c.; qt., 50c.; pk., \$1.45; bu., \$5.25.

Green Podded Bush Beans

New Bountiful

(See illustration)—A green pod Bush Bean, which comes into bearing very early and continues throughout the season. Pods beautiful rich green, very thick, broad, long and uniform; meaty, tender, fine quality; absolutely stringless. Good shell Bean for Winter use. A splendid market variety. Pkt., 10c.; pt., 25c.; qt., 45c.; pk., \$1.40; bu., \$5.00.

Stringless Green Podded

One of the finest extra-early Beans in cultivation and one that has held its place in spite of many new introductions for which superior qualities were claimed. It produces in profusion long, straight, round, deeply saddlebacked pods early in the season. The pods are absolutely stringless at all stages of growth, brittle, tender and of real good flavor. Pkt., 10c.; pt., 30c.; qt., 50c., postpaid. By express, pk., \$1.60; bu., \$5.75.

Full Measure

A very desirable round-podded variety with pods six to seven inches long, which are solid, meaty, brittle and stringless. It is a little later than Stringless Green Pod and is a splendid Bean for home or market use. Pkt., 10c.; pt., 25c.; qt., 40c.; pk., \$1.40; bu., \$5.00.

Keeney's Stringless Refugee—This has all the good qualities of the Refugee and the additional advantage of being perfectly stringless. It is an exceptionally fine variety and will eventually displace the old types of Refugee. Pkt., 10c.; pt., 30c.; qt., 50c.; pk., \$1.65; bu., \$6.00.

Refugee or 1000-to-1—Fine quality, medium late. Prolific; nearly round. Our strain is extra fine. Pkt., 10c.; pt., 30c.; qt., 50c.; pk., \$1.65; bu., \$6.00.

Extra-Early Refugee—Hardy; an abundant bearer. Ten days earlier than Refugee or 1000-to-1. Pkt., 10c.; pt., 25c.; qt., 40c.; pk., \$1.30; bu., \$4.50.

Longfellow—A new extra-early variety with perfectly round and uniformly straight pods; very fleshy, long, brittle and without strings while young; flavor delicious; plants very prolific. Pkt., 10c.; pt., 25c.; qt., 40c.; pk., \$1.25; bu., \$4.50.

Black Valentine—Very hardy; resists unfavorable weather and disease. Long, straight, green pods of fair quality; enormously productive. Ready for market in 50 days from sowing. Pkt., 10c.; pt., 25c.; qt., 40c.; pk., \$1.25; bu., \$4.25.

Dwarf Horticultural—Speckled cranberry. Splendid for shell Beans. Pkt., 10c.; pt., 25c.; qt., 45c.; pk., \$1.50.

White Kidney, or Boyal Dwarf—Pkt., 5c.; pt., 25c.; qt., 40c.; pk., \$1.20; bu., \$4.50.

Giant Stringless Green Pod—Has a much larger pod than Stringless Green Pod, or about one-third

larger than the Valentine—average 5 inches long. Full and fleshy, extremely crisp and absolutely stringless; very early and prolific. Pkt., 10c.; pt., 30c.; qt., 45c.; pk., \$1.50; bu., \$5.50.

Hodson "Green Podded"—Entirely unaffected by rust or blight; an exceptionally strong and robust grower; enormous yielder, often producing 50 to 60 pods to the plant. A little later than Refugee or 1000-to-1. Excellent shipping sort. Pkt., 10c.; pt., 25c.; qt., 40c.; pk., \$1.15; bu., \$4.25.

Hopkins Earliest Red Valentine—One of the earliest and most prolific round green podded Beans. Comes into bearing earlier than the old stock of Valentines, is a wonderful producer and a perfect shipper. It will remain in a perfect condition for nearly two weeks after picking. Pkt., 10c.; pt., 25c.; qt., 40c.; pk., \$1.40; bu., \$5.00.

Full Measure

Extra-Early Round Pod Red Valentine—Usually ready to pick in 35 days after planting. Pods round, thick, fleshy, of fine quality; one of the most profitable sorts for market. Pkt., 10c.; pt., 25c.; qt., 40c.; pk., \$1.25; bu., \$4.50.

Livingston's Round Six Weeks—Extra-early; strong grower and abundant cropper. Pods green, very fleshy, free from strings when young. Round and yellow when ripe. Pkt., 10c.; pt., 25c.; qt., 40c.; pk., \$1.25; bu., \$4.50.

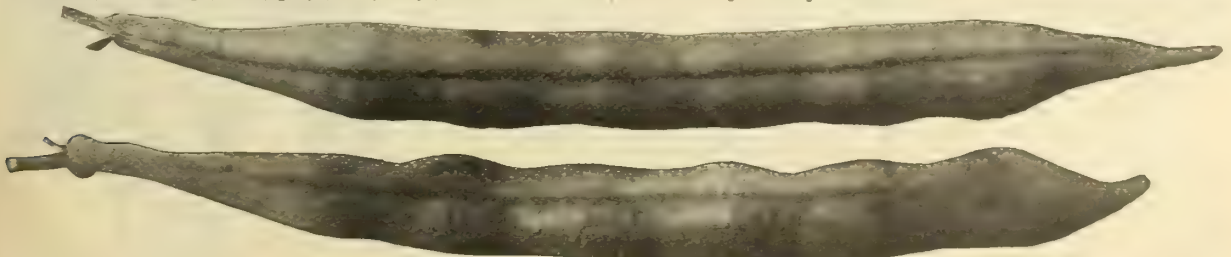
Improved Navy, or Boston Pea Bean—Very productive variety. Pkt., 5c.; pt., 25c.; qt., 40c.; pk., \$1.15; bu., \$4.25.

White Marrow—Good green or dry. Standard soup Bean. Pkt., 5c.; pt., 25c.; qt., 40c.; pk., \$1.20; bu., \$4.50.

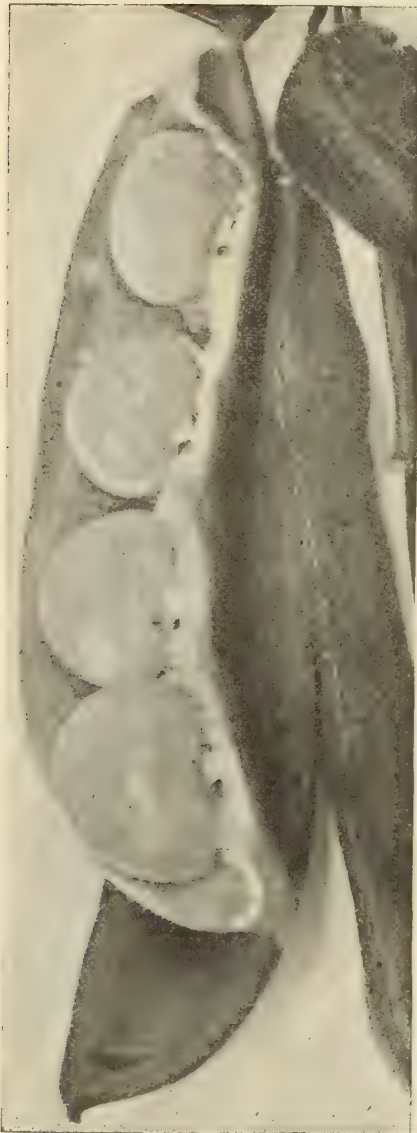
Bountiful

W. C. Edmiston, Polk Co., Fla., writes (10-29-13), as follows: "Some years ago I ran a market garden and always bought my seed from your father, and they were always good and true to name, so I came to look upon his seed as the standard of perfection. I have bought for my own use as high as 40 pounds of Tomato Seed in one season. Am again entering the market garden industry—my specialty will be Tomatoes and my seed company—LIVINGSTON'S. I send my first order to-day for 10 pounds Livingston's Globe Tomato."

J. A. Cox, Preston, Md., writes (5-1-13): "I planted my garden last Spring and also this with your seed exclusively and feel perfectly satisfied."



Stringless Green Pod



New Wonder

Frijoles Pole or Running Beans Stangenbohnen

The Pole or Running varieties are tender and should be sown two weeks later than Bush Beans. They succeed best in sandy loam, which should be liberally enriched with manure. Form hills, 3 to 4 feet apart; plant 6 to 10 Beans in a hill, 2 inches deep, leaving space in center for the pole. When well started, they should be thinned to from four to six plants in a hill. One quart will make 100 to 200 hills, according to size of the Beans. 8 to 12 quarts will plant an acre.

Early Golden Cluster Wax

A splendid snap Bean. Vines strong and hardy; very early, and continues bearing until frost. Beans are golden yellow, stringless and tender. Crop is very short. Pkt., 15c.; ½ pt., 25c.; pt., 40c.; qt., 65c.; ½ pk., \$1.40; pk., \$2.20; bu., \$8.00.

Kentucky Wonder or Old Homestead

An old favorite, with long, fleshy, deep-ly saddle-backed pods. Very prolific, producing an abundance of fine, stringless, crisp Beans until late in the season. Of best quality. Pkt., 10c.; ½ pt., 20c.; pt., 30c.; qt., 50c.; ½ pk., \$1.10; pk., \$1.90; bu., \$7.00.

Red Speckled Cut-Short—"Corn Hill." Pkt., 10c.; ½ pt., 15c.; pt., 25c.; qt., 50c.; ½ pk., 80c.; pk., \$1.50.

Bush Lima Beans

These varieties are of true Bush or Dwarf form, growing but 18 to 20 inches high, without supports. About two weeks earlier than the Pole Lima Beans. Sure croppers. Abundant bearers until frost. Plant in rows 2 to 3 feet apart and a foot apart in the rows.

Three Fine Bush Lima Beans Burpee-Improved Bush Lima

This has uniformly larger pods than Burpee's Bush Lima, while the pods contain more Beans which are thicker and remain green even in the dry stage. The plants are very prolific, bearing Beans in clusters of from 5 to 7. The individual pods average 5 to 6 inches long and contain from 5 to 7 Beans. The Beans are exceedingly thin-skinned and of delightful flavor. They almost "melt in your mouth," to use a popular expression. Price by mail, pkt., 10c.; ½ pt., 20c.; pt., 35c.; qt., 65c., postpaid. By express, qt., 50c.; peck, \$2.50; bu., \$9.00.

Fordhook Bush Lima

It is entirely distinct in habit of growth. The stiffly erect bushes branch freely and bear tremendous crops. It is ready for use as early as the popular Burpee's Bush Lima, but the Beans are much plumper and remain green much longer. The shelled Beans are very fat, are closely packed in the pods, which shell very easily. Pods are borne in clusters of from 4 to 6, average 4 to 5 inches long and contain usually 4 tender Beans of a delightful flavor. Price, by mail, pkt., 10c.; ½ pt., 20c.; pt., 35c.; qt., 75c., postpaid. By express, qt., 60c.; peck, \$2.75; bu., \$10.50.

New Wonder or Quarter Century Bush Lima

Pods about the same as Burpee's Bush Lima; Beans slightly smaller; a few days earlier and fully as productive. A sure cropper. Very true to bush form. An immense yielder. Pkt., 10c.; ½ pt., 15c.; pt., 30c.; qt., 50c.; pk., \$1.75; bu., \$6.50.

Burpee's Bush Lima—Bushes are of stout growth, branching so vigorously that each plant makes a large bush. Immense yielder of well-filled pods of large Beans of luscious flavor. Pkt., 10c.; pt., 30c.; qt., 50c.; pk., \$1.75; bu., \$6.50.

Henderson's Bush Lima—Compact bush form, and produces large crops. Delicious flavor. Pkt., 10c.; ½ pt., 15c.; pt., 30c.; qt., 50c.; pk., \$1.75; bu., \$6.00.

Thorburn, or Dreer's Bush Lima—Very productive; thick, sweet, tender, succulent. A fine sort. Pkt., 10c.; pt., 30c.; qt., 50c.; pk., \$2.00; bu., \$7.50.

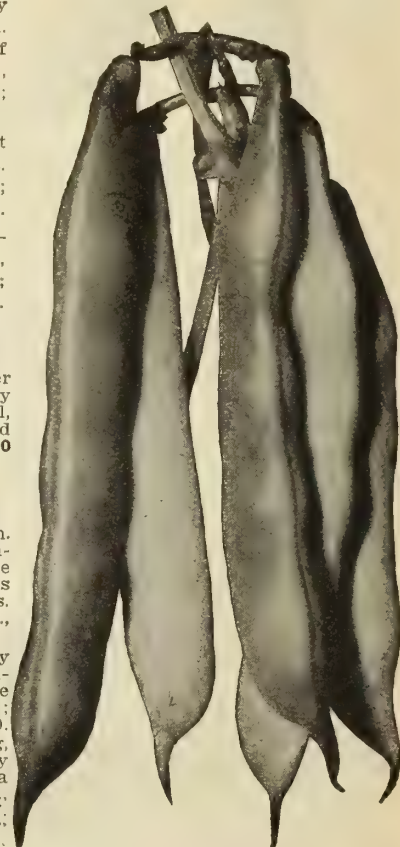
Powell's Prolific

Most desirable green-podded Snap Bean. Bears profusely, quite early, and continues until frost. Very strong grower, one plant filling a pole with a mass of vines densely loaded with handsome Beans. Perfectly stringless. Pkt., 10c.; ½ pt., 25c.; pt., 40c.; qt., 65c.; pk., \$2.25.

White Creaseback (Fat Horse)—Very early, productive; round, meaty pods, entirely stringless. Dry Beans are pure white. Pkt., 10c.; ½ pt., 15c.; pt., 25c.; qt., 50c.; ½ pk., 80c.; pk., \$1.50; bu., \$5.50.

Lazy Wife's—Pods 6 to 8 inches long, entirely stringless, of a rich, buttery flavor when cooked as a snap Bean; a good white shell Bean for Winter. Pkt., 10c.; pt., 25c.; qt., 50c.; pk., \$1.90; bu., \$7.

Speckled Cranberry—Old "Bird Egg." Pkt., 10c.; ½ pt., 15c.; pt., 30c.; qt., 50c.; ½ pk., \$1.00; pk., \$1.75; bu., \$6.00.



Early Golden Cluster Wax

Livingston's Royal Corn Bean

This is a fine green-podded snap pole Bean; the pods are produced in large clusters, six to eight inches long. Stringless, very tender and delicious. It will produce twice as many string Beans from the same ground as any of the bush kinds. Beans can be shelled green for Summer market, or left to ripen for dry Beans for Winter use. Especially adapted for growing on corn, thus economizing space on valuable land, or where poles are scarce. Pkt., 10c.; ½ pt., 20c.; pt., 35c.; qt., 60c.; pk., \$2.25.

Pole Lima Beans

Lima Beans will not grow until the weather and ground are warm. If planted before, they are almost sure to rot in the ground. See cultural directions for Pole Beans.

Early Leviathan

(See illustration)

One week earlier than any other Pole Lima. Of superior quality. Wonderfully productive. The ideal Pole Lima. This delicious vegetable is denied to many would-be growers on account of the length of season required to mature it, the early frost coming on just as the crop is ready to pick. This sort is at least a week earlier than any other, consequently it will prove a boon to thousands of growers. Earliness is often obtained at the sacrifice of other valuable features, but in this variety we claim superiority, not only in this respect, but in size of Bean and pod and enormous productiveness. Pkt., 10c.; pt., 30c.; qt., 50c.; ½ pk., \$1.00; pk., \$1.75; bu., \$6.50.

Siebert's Early Lima

(See illustration)

One of the very best for market gardeners. The result of a number of years' selecting to largest green Beans and easily opening pods. Very productive, hardy and vigorous. Produces pods early, and continues to the last of the season. The green Beans are of immense size, but so tender and succulent that they shrink in drying to about the size of the larger White Lima. Pkt., 10c.; pt., 30c.; qt., 50c.; ½ pk., \$1.00; pk., \$1.75; bu., \$6.25.

Carpenteria Large Green-Seeded Pole Lima

An excellent variety with many unique characteristics. The original "sport" plant was discovered in a field of the "Burpee-Improved" Bush Lima, from which the **Carpenteria Green-Seeded Pole Lima** inherits many good points. Vines are of strong, vigorous growth, setting many pods, which are closely filled with large, fat Beans, much thicker than those of the ordinary Pole Limas. Pods contain 3 to 4 Beans, which retain the green tint in the dry state to a greater extent than any other Lima Bean—a sure indication of fine quality. Pkt., 10c.; pt., 35c.; qt., 60c., postpaid. By express, qt., 45c.; 4 qts., \$1.15; pk., \$1.75; bu., \$6.50.

King of the Garden

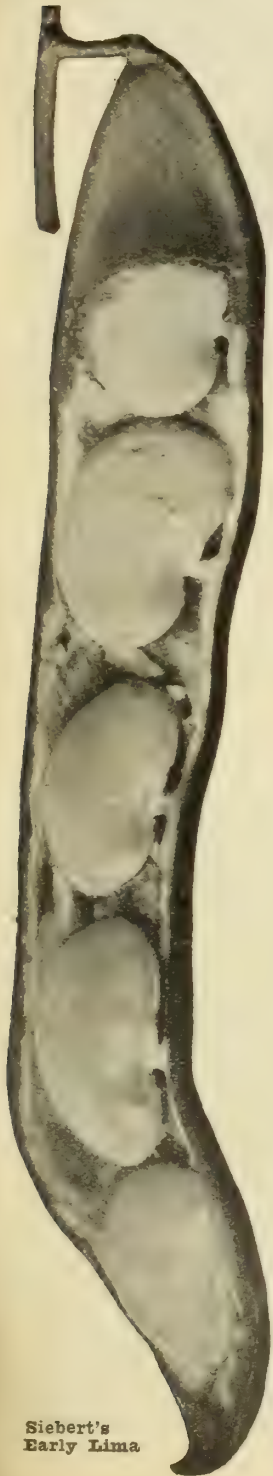
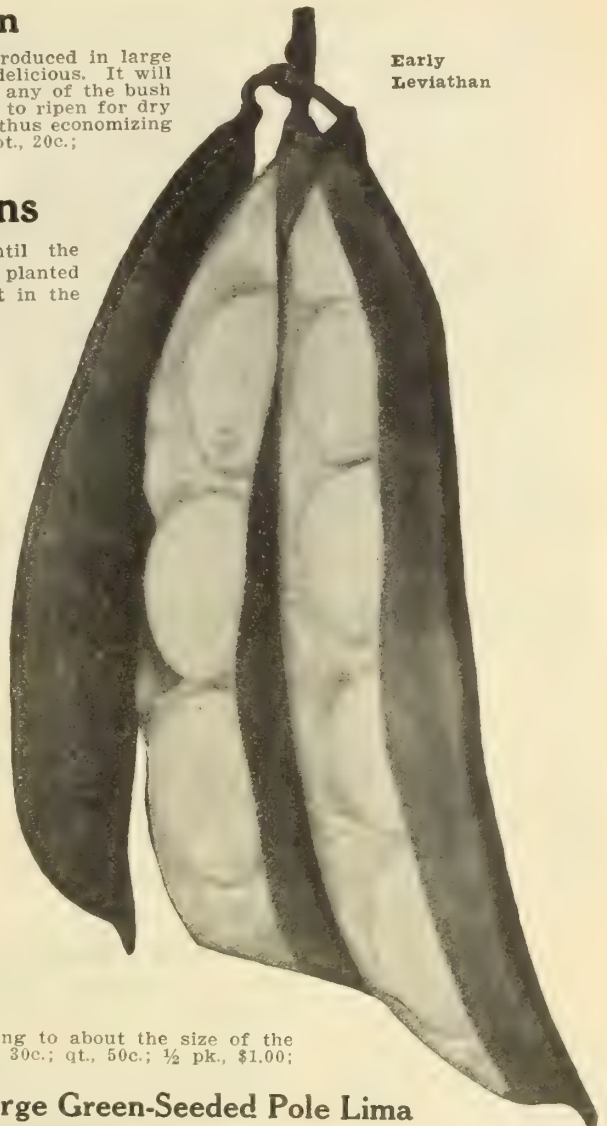
Vigorous grower, pods containing five to six large Beans, which are of fine quality. The vines grow strong and yield heavily. A very fine variety. Pkt., 10c.; pt., 30c.; qt., 50c.; ½ pk., \$1.00; pk., \$1.75; bu., \$6.25.

Dreer's Improved

Beans thick, sweet and tender. Especially good for the home garden. Enormously productive. Pkt., 10c.; pt., 30c.; qt., 50c.; pk., \$1.75; bu., \$6.50.

Mr. L. W. South, Hamilton Co., Ohio, writes as follows: "I had Livingston's Globe Tomato ripe last year July 12th, when they were selling \$4.50 wholesale. All who bought them said they were the best they ever saw. Sold \$20.00 worth of plants, and \$4.65 of Tomatoes, and \$345.00 of Lima Beans from our garden of 25 feet by 60 feet. Had all we wanted to use for ourselves. The Beans brought us 40c. a quart. Had the first quart on the market."

Early
Leviathan



Siebert's
Early Lima

Sieva, or Small Lima

Early, and the small Beans are of luscious flavor. Fine sort for the kitchen garden. Pkt., 10c.; ½ pt., 15c.; pt., 30c.; qt., 50c.; pk., \$1.65; bu., \$6.00.

Wm. Gundry, Darlington, Lafayette Co., Wis., writes (4-14-13): "Your seeds are as good as any one wants and I am well pleased and would like if I had a place to plant more of them. Your Flower seeds were pretty and every one admired them as they went by on the train, as I live close to the track in the city."

Messrs. Earle & Poitevent, Laguna de la Puerta, Mexico, write: "All the shippers of Tomatoes from Mexico into the States plant your Tomato seeds. Even the Mexicans know them, insist upon planting only 'de Livingston,' and prefer 'las piedras,' Stones, in English. You couldn't get them, for love nor money, to plant any other sort, not if they knew it, and they know the Blue Seal."



Remolachas **Garden Beets for Table Use** Bote Euben

The soil best suited for the culture of the Beet is that which is rather light, provided it is thoroughly mixed with manure. If wanted very early, sow in hotbeds and transplant; but for main crop sow in the Spring, as soon as the ground becomes fit to work, in drills 18 inches apart, 1 inch deep. For Winter use, the Turnip varieties may be sown as late as June and the seed covered two inches. When the plants are 3 or 4 inches in height, thin out so that they stand 3 or 4 inches apart. Keep free from weeds by frequent hoeing and hand-weeding if necessary. Before freezing weather sets in the roots may be stored in cellars or pits, same as potatoes; dry earth thrown over them before the straw is put on insures their keeping over Winter. Do not bruise them in handling. **One ounce of seed will sow 50 feet of drill; 5 to 6 pounds to the acre.**

Crosby's Improved Egyptian Beet

A Money-Maker for Market Men

A very superior Beet, carefully selected for years by Mr. Crosby, a noted gardener for the Boston markets, whose aim was to secure a perfect outdoor forcing variety. The results obtained were handsome form, good size, few small tops, very small tap root, fine quality, and, above all, quick, rapid growth. The shape is very desirable, not quite so flat as the ordinary Egyptian, nor so round as the Eclipse. Takes on its turnip shape and looks well, even in the early stages of its growth, on which account it is preferred for forcing to the Globe and Half-Long varieties. May be sown outside as late as July. We have made a very fine selection of this stock for years, and we believe have it nearer the Original Crosby idea than any one in the trade.

Crosby's Improved Egyptian—Extra Selected Stock—Grown by ourselves. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 45c.; lb., \$1.50.

Edmand's Blood Turnip

Very uniform. Root is always smooth, round and handsome; top small; of good marketable size and among the best for table use. Color dark red; crisp, tender and sweet; good keeper. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.

Crimson Globe

Root of medium size, very handsome globe shape, and has a remarkably smooth surface. Both the skin and flesh are deep, rich red, fine grained, sweet and tender in all stages of growth. Small tap root; leaves are small, dark green. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.25.

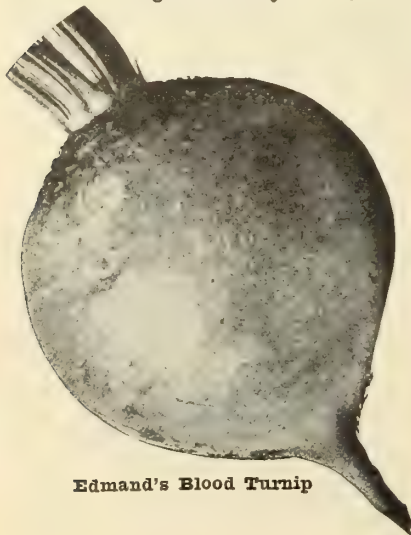
Extra-Early Egyptian—Very early, dark blood red, medium size, tender and sweet; the best for kitchen gardens. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.

Extra-Early Eclipse—Is very early, and lasts well throughout the season. Handsome, smooth, dark, globe-shaped Beet; quality very desirable; good Beet for private gardens. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.

Dewing's Improved Blood Turnip—The leading main crop variety. Roots always smooth, handsome, good size, tender and sweet. An enormous cropper. A favorite with marketmen. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.

Half-Long Blood Red—Of handsome shape, fine quality, quick growth; good for Winter use if planted late. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.25.

Lentz's Extra-Early Blood Turnip—A great favorite with market gardeners around New York and Philadelphia. Of a rapid growth; fine form, exceedingly sweet and delicious. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.



Edmand's Blood Turnip

Detroit Dark Red Turnip Beet

This superb variety is probably the most popular deep red turnip Beet, not only for market gardeners, but for home use. It is also one of the best for canning, making a strikingly handsome product, far superior to that obtained from any other variety. Its small top, early maturing and splendid shape and color have made it a favorite. Top small, upright growing, so that the rows may be close together; leaf stem and veins dark red, blade green; root globular and very smooth (see illustration); color of skin dark blood red; flesh deep bright red, zoned with a darker shade, very crisp, tender and sweet, remaining so for a long time. Very uniform in shape, color and quality. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.



Detroit Dark Red Turnip Beet

Swiss Chard or Spinach Beet

A peculiar variety of Beet, of which the leaves only are used. It does not make a large root, but the leaves are splendid "greens" when cut young, and are equally delicious when allowed to mature. The broad, white leaf-stalks or mid-ribs are cooked and served like Asparagus. Produces continually from July until Fall. Can be had throughout the Summer when Spinach cannot be grown. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Swiss Chard Lucullus—The plants grow from 2 to 2½ feet tall and consist, when fully developed, of about a dozen creamy white, attractively curled leaves. These leaves are carried on broad, thick stalks, about 12 inches long. Take the leafy portion of the plant and cook it like Spinach. Prepare the stalks as you would Asparagus. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c., postpaid.

Bastian's Early Turnip—The largest of the turnip-shaped Beets. Tender and sweet; is somewhat lighter in color than other sorts. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Arlington's Favorite—Of fine form, good flavor; deep blood red flesh; small foliage. For the market garden hard to excel. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Long Dark Blood Red—A good keeper of good size; flesh dark blood red. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

The Five Best Sugar Beets

Sugar Beets are not as heavy yielders as the Mangels, but contain a large amount of sugar. They are excellent for feeding cows.

Vilmorin's Improved White—Greatly esteemed by sugar manufacturers, and one of the finest for stock feeding. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 45c. By express, lb., 35c.

Lane's Imperial—Especially good for stock feeding. Large, smooth, fine grained and very sweet. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c. By express, lb., 40c.

Klein-Wanzleben—This splendid Sugar Beet is one of the greatest milk-producing roots known. The yield is not quite equal to Mangels, yet the feeding value is superior. Contains the greatest amount of sugar of any. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c. By express, lb., 40c.

Giant White or Rose Half-Sugar—Yield nearly as much per acre as Mangel Wurzel, and the roots are of much higher nutritive value. Roots grow partly out of ground and are easily harvested. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 45c. By express, lb., 35c.

Mangel-Wurzels

An ever-increasing acreage is being planted to stock beets because of the wonderful results from feeding them. Fattening, breeding and milk cattle do equally well on them. About one-fourth of the daily rations should be of roots. Sow in rows 2½ to 3 feet apart as soon as the ground can be thoroughly worked. Cover seed about 1½ inches, making ground firm over the seed. When 4 inches high, thin to 8 inches apart. Six pounds sow one acre.

Mammoth Long Red, also called Norbiton Giant, Jumbo Mangel, Colossal, etc.—A favorite with the farmer and dairyman; large, well-formed; blood red color; very nutritious; a big cropper. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c. By express, not paid, lb., 40c.; 10 lbs., \$3.75.

Golden Tankard—Very productive and sweet; flesh yellow, tops and neck very small; easily pulled. Especially relished by sheep and cows. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c. By express, lb., 40c.; 10 lbs., \$3.75.

Champion Yellow, or Orange Globe—Very productive; easily pulled; fine keeper; spherical shape; orange-yellow. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c. By express, lb., 40c.; 5 lbs., \$1.75.

Golden Giant Intermediate (Yellow Leviathan, or Mammoth Yellow)—Beautiful russet yellow; skin smooth; flesh white, firm, sweet; productive; easily pulled; good keeper. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c. By express, lb., 45c.

Special Prices given on Mangel-Wurzels, or Sugar Beets, in 100-lb. lots.

F. W. Holloway, Manatee Co., Fla., writes (8-25-13): "Last Spring I planted five acres of your Livingston's Globe Tomato. If any one has any better I don't know the name of it."

Jacob J. Meyer, Allegheny Co., Pa., writes (8-25-13): "We have had a very successful season, with good crops from True Blue seeds."

Geo. Wagner, Manatee Co., Fla., writes (6-12), as follows: "I think your Livingston's Globe is the best market Tomato grown in the South."



One of Our Fields of Detroit Dark Red Beets for Seed

Broccoli Spargelkohl

This plant is very closely allied to the Cauliflower, the variation being very slight. It is generally considered rather more hardy, however. In growing Broccoli, a seed bed should be prepared and the seed sown in May. The plants will be ready to transplant late in June or early in July, and should be set in very rich, mellow ground, in rows about 2½ feet apart, leaving 18 inches between the plants. In cool, moist Fall weather, it thrives well.

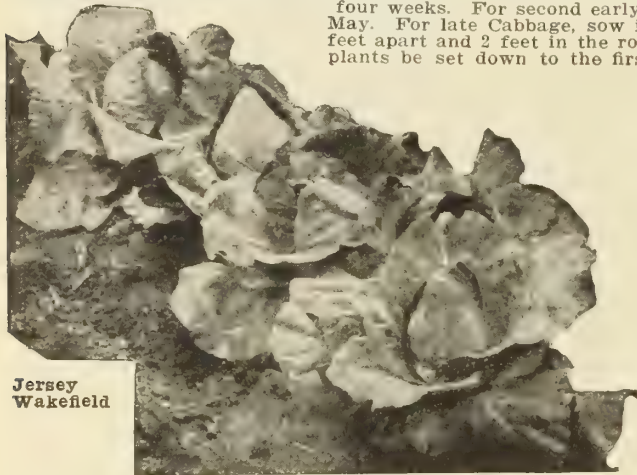
Early Large White—Heads medium size, close and compact. One of the most certain to head. Pkt., 10c.; oz., 30c.; ¼ lb., \$1.00.

Early Purple Cape—Rather hardier sort; greenish purple heads; good flavor. Pkt., 10c.; oz., 30c.; ¼ lb., \$1.00.

Livingston's High-Bred Cabbage Seed

Col repollo

Cabbage requires deep, rich, mellow soil, high manuring and good culture to obtain fine, solid heads. For early use, sow seeds of the early kinds in the hotbeds or in a box in the house the last of January or early in February; transplant into the open ground in April, in rows 2 feet apart and 18 inches in the row; or sow a bed of seed outside as soon as the soil can be worked. Transplant in about four weeks. For second early Cabbage, sow in April and transplant in May. For late Cabbage, sow in May and transplant in July in rows 3 feet apart and 2 feet in the row. In transplanting, it is important that plants be set down to the first leaf, so that the stem may not be injured in case of frost. Be care not to cover the heart of the plant. Hoe every week and stir soil deeply. As they advance in growth draw a little earth to the plants until they begin to head. To prevent attacks of the cabbage fly on small plants, dust thoroughly with plaster, air-slacked lime, or wood ashes. For cabbage worm, try Hammond's Slug Shot. **One ounce of seed produces about 2500 plants. Four ounces will grow enough plants to set an acre.**



Jersey Wakefield

Early Jersey Wakefield

Many market gardeners consider this the **very best Early Cabbage** in cultivation. Certainly deserving of its great popularity. Grown extensively for market and shipping. Its merits are many, among which are large heads for an early sort, small outside foliage and uniformity of crop. Pyramidal in shape, having a blunted or rounded peak; very solid, fine texture and sweet. **The seed we offer is first class, sure to give satisfaction.** Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Large Charleston Wakefield

A selection from Early Jersey Wakefield, only it is about one week later than that popular early variety and grows much larger heads, often averaging 8 to 10 pounds. As solid as Early Winningstadt. There are immense quantities grown in the South for Northern markets. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 60c.; lb., \$1.75.

Early Winningstadt

(The Old Standby)—Well known and popular Cabbage. In season very close to Early Jersey Wakefield. Heads large, decidedly conical. Solid, even in Summer; almost worm-proof, because so hard. A very sure header. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Extra Early Express

While not quite so large as the Early Jersey Wakefield, it is several days earlier, and for a first early variety is not excelled. Has compact heads of conical form and yellowish green color; very dwarf, uniform. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 60c.; lb., \$1.75.

Brussels Sprouts

Col de Bruselas

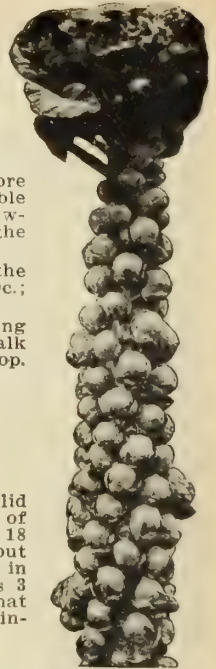
Rosenkohl

A species of the Cabbage family, which produces miniature heads from the sides of the stalk. These heads are a great delicacy, boiled in the same way as Cauliflower. The seed should be sown about the middle of May, in a seed bed, and the plants afterwards set in rows 2 feet or more apart, and cultivated like Cabbage. This vegetable does not require extremely high cultivation, however. It is ready for use late in autumn after the early frosts.

Improved Dwarf—Produces compact sprouts of the finest quality; a good keeper. Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.75.

Pride of Denmark—A fine new variety, growing about 3 feet tall. Sprouts develop along entire stalk at one time, lower ones being as good as those at top. Pkt., 10c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.00.

Borecole, or Kale—See Kale, page 39.



Pride of Denmark Brussels Sprouts

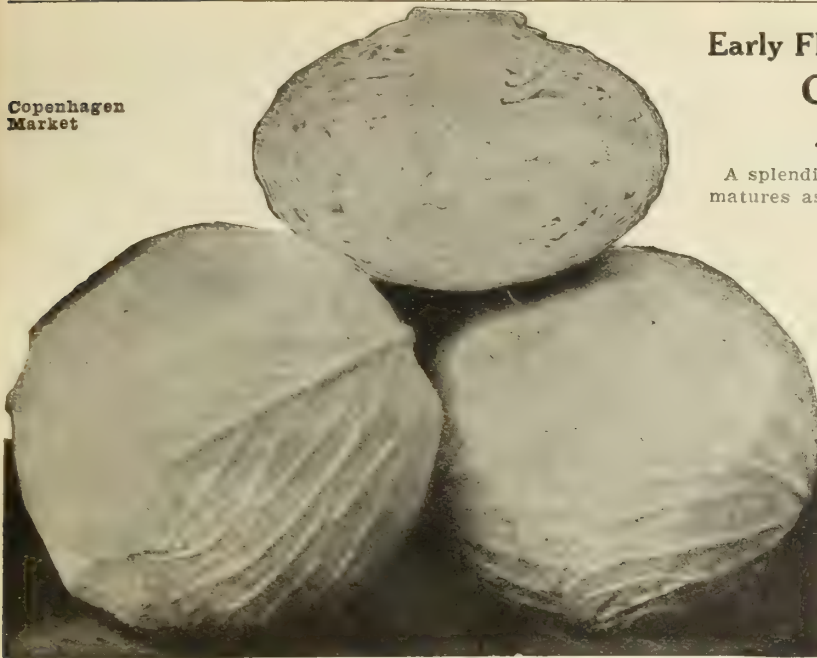
M. Arakawa, Los Angeles Co., Cal., writes (8-25-13): "We know the reputation of your Tomato seeds so have recommended them to all members of the Association to plant them. We have tried and found preferable the Stone and Spark's Earliana for this climate."

Miss M. T. Smith, Trumbull Co., Ohio, writes (Aug. 19, 1913), as follows: "I think so highly of your 'Crisp as Ice' Lettuce, that I have sent several times for seed."



Charleston Wakefield

Copenhagen Market



Early Flat or Round-Headed Cabbage Copenhagen Market A New Early Cabbage

A splendid new extra-early round-headed sort which matures as early as the Wakefields and is of much larger size. Each plant forms a perfect, tightly folded head, averaging five to eight pounds in weight and about eight inches in diameter each way. The compact growth of the plant, the solidity of the head, its excellent flavor, and extreme earliness—all combine to make Copenhagen Market one of the most meritorious Cabbages that have come to our notice in a decade. Pkt., 10c.; ½ oz., 30c.; oz., 50c.; ¼ lb., \$1.75.

All-Head Early

A thoroughbred sort of remarkably uniform size and shape and sure heading qualities. Deep, flat heads, solid and uniform in color, shape and size. In tenderness unsurpassed. For Winter use, sow in July. By reason of its compactness, 1000 more heads can be obtained from an acre than of many other good-sized varieties.

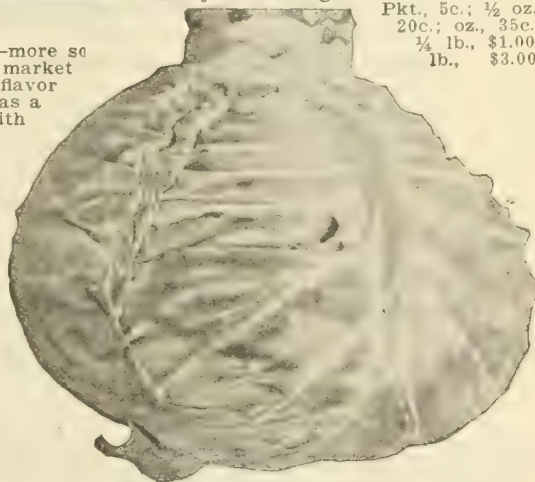
Pkt., 5c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.00; lb., \$3.00.

Glory of Enkhousen

It is very early and large, always extremely solid and fine ribbed—more so than any other kind. Once known, it will hold its own with the market gardeners and home growers alike. In our judgment it excels in flavor all varieties known to us. It is exceedingly tender, fine grained and as a cropper no early Cabbage will approach it. Planted side by side with Early Jersey Wakefield, under the same conditions, the former produced heads of marketable size five to six days earlier, and in size fully double that of the Early Jersey Wakefield. Glory of Enkhousen Cabbage is more solid and better flavored and keeps in fine condition much longer. It is very dwarf and compact, allowing of close planting. Heads fine, ball-shaped, and with few outside leaves. Size ideal for marketing. An extra good cropper on account of extra size over many other first early sorts. Pkt., 5c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.00; lb., \$3.00.

The Volga

"This variety is of the greatest uniformity. In a field of several acres frequently not a single plant shows any variation from a true and valuable type. In some respects it is a vegetable wonder, as the heads are about equal in size and shape, weighing from 12 to 15 pounds each, round as a ball, the largest measuring about 12 inches in diameter either way. Unlike most varieties, the heads are perfectly solid, and the stem does not run up into the head; the flesh is exceedingly firm, tender and white. In respect to hardiness; we have never seen a type which would favorably compare." This type will mature its heads fully two weeks earlier than any of our late-growing kinds. Pkt., 5c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.00; lb., \$3.00.



Volga Cabbage

Early Spring

As early as Early Jersey Wakefield. Will yield one-third more than any other extra-early Cabbage on same area. Plant 21 inches apart and you have 13,000 per acre. Has the peculiarity of heading firmly even before fully grown. Also flat-headed, making it valuable for extra-early market or home use. Pkt., 5c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.00; lb., \$3.00.

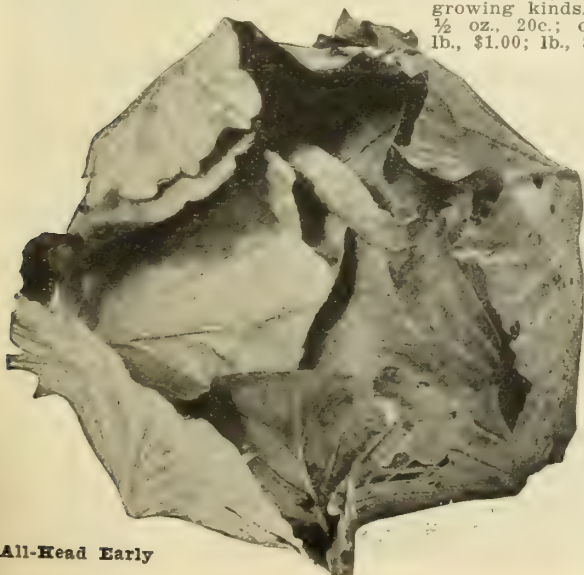
Eureka First-Early

In comparison with Early Jersey Wakefield, Eureka First Early is heavier, harder, earlier, and has flat head. Forms head fit for market 5 days earlier than Early Jersey Wakefield. Its shape and excellent table qualities make it a favorite with consumers. Pkt., 5c.; ½ oz., 25c.; oz., 40c.; ¼ lb., \$1.10; lb., \$3.50.

Henderson's Early Summer—About 10 days later than the Early Jersey Wakefield, but, being fully double the size, may be classed with best large Early Cabbages. Equal in weight to most of late varieties; may be planted nearly as close as Early Jersey Wakefield. Keeps long time without bursting. Heads round. Pkt., 5c.; ½ oz., 15c.; oz., 30c.; ¼ lb., 75c.; lb., \$2.50.

Fottler's Short-Stem Brunswick—Rapid grower; large, solid heads, few outside leaves; planted early, is ready for use in July; planted late, is a choice Winter sort. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 60c.; lb., \$2.00.

All-Season (Vandergaw)—Greatly improved strain of Early Dwarf Flat Dutch. Heads very large, round, solid and of fine quality, keeping as well as the Winter sorts. Remarkable for its ability to stand hot sun and dry weather. Planted late—a choice Winter sort. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 85c.; lb., \$2.75.



All-Head Early



Field of Danish Ball-Head

Late Cabbages for Fall and Winter Use

Danish Ball-Head (Tall-Stemmed)

Hard as a Rock—Heavy as Lead

Greatest Weight in smallest space

This splendid variety is well known for its remarkable solidity and grand keeping qualities. So great has been the demand among the users of Cabbage for this fine-grained sort as to render its importation from Denmark a most profitable enterprise for the vegetable dealer. The heads are very heavy and superb in quality. The extra weight, in limited space, will be appreciated by those who grow for distant markets, ship in car loads and sell by weight. This variety has been sold under a number of different names, such as "Hollander," "German Export," "Dutch Winter," etc., but the correct name is "**Danish Ball-Head.**" Pkt., 5c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.; $\frac{1}{4}$ lb., 60c.; lb., \$2.00.

Danish Ball-Head (Short Stemmed)

Similar to the above, except has shorter stem, being preferred by some people. Pkt., 10c.; $\frac{1}{2}$ oz., 20c.; oz., 30c.; $\frac{1}{4}$ lb., 75c.; lb., \$2.25.

Danish Summer Ball-Head

This variety is intermediate between Copenhagen Market and Danish Ball-Head. All three are very much alike except as to season of maturity. Danish Summer Ball-Head is as its name implies, a mid-season variety and all that has been said as to the merits of the other two mentioned applies to this Cabbage. Pkt., 10c.; $\frac{1}{2}$ oz., 30c.; oz., 50c.; $\frac{1}{4}$ lb., \$1.50; lb., \$4.00.

Livingston's Premium Flat Dutch

Years ago we set out to build up a strain of Large Late Flat Dutch Cabbage that would be better than any other on the market, and now we have it in our **Livingston's Premium Flat Dutch.** Our purpose has been to weed out every objectionable point, and to fix firmly every good quality. It produces many tons to the acre, because of its solidity and compact, snug manner of growth. Unlike most large sorts, it is solid to the heart. Our stock seed is always grown from heads (not from stalks after the heads are taken off), fully developed and perfect in every respect. This strain has no superior. **The heads are large and very solid; open white, are crisp and tender, and sure to head.** (See illustration.) Grown largely by marketmen on account of its good shipping qualities. Pkt., 5c.; $\frac{1}{2}$ oz., 20c.; oz., 30c.; $\frac{1}{4}$ lb., 85c.; lb., \$2.75.

Livingston's Ideal Winter

(See illustration.) A few days earlier than Livingston's Premium Flat Dutch, and one of the most magnificent strains of Late Flat Dutch known to-day. By persistent selection, year after year, it has been brought to a state of perfection rarely attained. The large, solid heads, the low, short stems, the absence of useless foliage, uniformity of size and shape, reliability for heading, and long-continued selection mentioned above, all combine to make this **the Ideal Cabbage for profit.** Pkt., 5c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.; $\frac{1}{4}$ lb., 70c.; lb., \$2.25.



LIVINGSTON'S PREMIUM FLAT DUTCH.

Mr. A. H. Craig, Mukwonago, Wis., writes: "Last Spring I bought of you over 20 lbs. of Cabbage seed. Of the early I took Charleston Wakefield, and set 5 acres, from which I sold over \$1,000 worth. I want to try the Extra-Early in Winter frames. It is an experiment, but if I can get Cabbage 10 days earlier I can make one-half more. I have 65 acres of the Danish Ball-Head Cabbage looking fine." (He bought 21 lbs. of the Danish Ball-Head of us this Spring.)

J. H. Coombs, N. J., writes as follows: "I bought Cabbage seed from you called the Volga last year and they did fine. I put out 2,000 plants on July 20th and every one of them made a head weighing from 8 to 14 pounds. My neighbors thought they were the finest they ever saw."



Surehead

Very reliable header; large, round, flattened heads, and is remarkable for its certainty to head; good keeper and shipper. It is very sweet flavored, has but few loose leaves, keeps well, and, as a Cabbage for the kitchen garden, is unequalled. Pkt., 5c.; oz., 25c.; ¼ lb., 60c.; lb., \$2.00.

Louisville Drumhead

About Cincinnati and Louisville it has been grown for more than 40 years. Heads very large and solid; a sure header; will stand without bursting almost the entire Summer. For Winter use, sow late in the season. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.75.

Succession

About one week later than the Henderson's Early Summer, but nearly double the size, while it can be planted nearly as close, its outer leaves being unusually short. A very sure header. Pkt., 5c.; ½ oz., 25c.; oz., 40c.; ¼ lb., \$1.25; lb., \$3.50.

Large American Drumhead

A superior Fall and Winter variety; large heads. Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.75.

Marblehead Mammoth

The largest variety of Cabbage ever produced. A very desirable variety for warm latitudes; also to grow for prizes, exhibition at fairs, etc. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 65c.; lb., \$2.50.

Notice

Many requests are received to send seeds by Parcel Post. The Parcel Post rates do not apply on Seeds, Bulbs and Plants. The old rate of 8c. per pound, 8c. per pint and 15c. per quart is still in effect, but the weight limit in zones one and two has been raised to 20 pounds. Please bear this in mind.

Let Us Help You

We want every customer to feel that it is OUR business to help HIS business. Whether this help comes in the form of pedigree seeds or through culture directions, or through advice given by correspondence—all have the same purpose. Business deals with us must in every case satisfy the customer or we want to know it. "To err is human" and mistakes may happen in spite of all precaution. We consider those, who give us a chance to do the right thing at all times, the true friends of our business.

Mr. A. D. Gawthrop, W. Va., writes: "The Ideal Cabbage seed I bought of you last Spring did exceedingly well. This season we had the largest heads anywhere around."

Mr. Jos. Minnick, Ind., writes: "The seeds I got of you last year were very fine. The Succession Cabbage you sent me is what I want now. It was the nicest Cabbage I grew last year."

Autumn King or World Beater

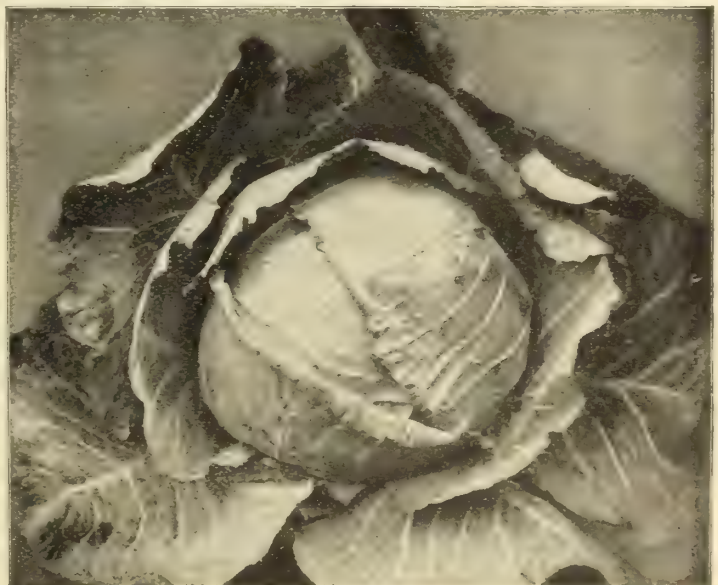
One of the finest strains of late Cabbage. It produces regular, even heads of enormous size; a great cropper on account of few outside leaves. Pkt., 5c.; oz., 25c.; ¼ lb., 60c.; lb., \$2.00.

Chase's Excelsior

Medium early; heads large, very uniform in type; sure to head, and exceedingly solid. Planted late, it is one of the best Winter sorts. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 60c.; lb., \$2.00.

Early Dwarf Flat Dutch

Excellent second early variety, producing fine, large heads. Highly valued for its fine quality and ability to resist heat. Heads very solid, broad, round, flattened on top, tender and fine-grained. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 60c.; lb., \$2.00.



Surehead



Improved American Savoy Cabbage

Zanahorias Carrots Mohren

Carrots are not appreciated as they should be. Their table qualities are excellent, and as a food for stock they are surpassed by few root crops. The larger varieties produce large crops and are relished by all kinds of stock. They are especially valuable when fed to dairy cows, producing an increased flow of rich milk and imparting a beautiful golden yellow to the butter. We urge a more general use of the Carrot among our customers, knowing its great value will be appreciated when better known. Like other root crops, it flourishes best in a well enriched sandy soil, deeply tilled, and if plowed the fall before so much the better. Sow in early Spring in drills 15 to 18 inches apart, finally thinning the plants to 3 or 4 inches. If sown early or on a moist soil, a half-inch is deep enough to cover the seed. The seed is slow to germinate. Keep clean by frequent hoeing and weeding. If neglected, the young plants are easily smothered, and the crop is lost. **One ounce sows 100 feet of drill. 4 pounds sow one acre.**

Improved Danvers Half-Long

(See illustration on next page)

The best for general crop. Will yield the most per acre. Most profitable for market gardeners; stump-rooted. This variety originated in Danvers, Mass., where the raising of Carrots is made a special business, 20 to 30 tons per acre being no unusual crop. It is now grown largely everywhere on account of its productiveness and adaptability to all classes of soils. Tops medium size, roots deep orange, large but of medium length, tapering uniformly to a blunt point. Smooth and handsome flesh; sweet, crisp and tender. Although of medium length, it gives the largest yield per acre of any Carrot. We take extra pains in the selection of our seed stock. It is second to none. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.

Improved Long Orange

The standard late variety; very handsome and uniform in shape; roots are of a deep orange color; good flavor; yields very heavily. Requires a deep soil. Plants should stand 6 inches apart in 18-inch drills for roots to attain their full size. The roots are smooth, fine-grained and very large, growing to 12 inches in length and 3 inches in diameter. For feeding milch cows it is very valuable, as it increases the flow of milk and imparts to the butter a rich golden hue. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., 90c.

Livingston's Early Market

A very choice strain. Tender, fine-grained flesh. An enormous producer; handsome, uniform stumped roots. Considered by many to be the best table Carrot, because of its quality and shape; free from core and of a deep golden yellow color. Can be sown very thick, and consequently well adapted for frame culture. A most excellent forcer. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

Col de Milan Savoy Cabbages Wirsingkohl

The Savoy or Curly Cabbages are of exceptionally fine flavor and quality, and should be more generally cultivated. They are particularly adapted for private use, where quality rather than quantity is considered. Most delicious after frost.

Small Early Savoy

Best early dwarf Savoy; heads firm, solid, and beautifully crimped; finest quality. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 60c.; lb., \$2.00.

Improved American Savoy

Superior to the ordinary Drumhead Savoy offered under different names. Heads large and finely curled; short stalk; a compact grower; sure header; keeps well. Best for main crop. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 60c.; lb., \$2.00.

Repollo colorado Red Cabbages Rotkrant

Danish Ironball (Red)

As round as a ball and as hard as iron—those are the two leading characteristics of this elegant new sort. Heads grow to a large size, averaging 8 inches in diameter, of rich deep purplish color throughout. Pkt., 10c.; ½ oz., 25c.; oz., 45c.; ¼ lb., \$1.25.

Extra-Early Blood Red Erfurt—Earliest and reddest. Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.75.

Mammoth Rock Red—Heads as large as Large Late Flat Dutch; deep red to center. Highly recommended. Hard as a rock. Pkt., 5c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.00; lb., \$3.00.

Mr. E. D. Bland, La., writes: "Your 'Volga Cabbage' has proved to be a decided acquisition to our Winter Cabbage crop, making the finest heads carried to this market. At this writing, Jan. 15th, am still cutting from the field, every plant making a fine head."



Improved Long Orange Carrot

Improved Chantenay

(See illustration)—A Popular and Profitable Sort to Raise for City Markets. It is about 6 inches long, thick through and decidedly stump-rooted. In size it is between the Oxheart and Danvers. The flesh is a deep orange red, fine-grained and of a splendid flavor. It is very early and always produces smooth, shapely roots. Its fine appearance finds for it a ready market; its splendid table qualities keep it in demand. Our strain of seed is unsurpassed. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.

Early Scarlet Horn

(Stump-Rooted)

For forcing and early garden use; flesh deep orange, fine grained; agreeable flavor; small top. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

Saint Valery, or Intermediate

A thick, intermediate smooth variety; an English sort. It very much resembles the Danvers Carrot in both general shape and size. The color is a rich orange red, and of fine flavor. The roots grow very uniform; a most desirable Carrot for private gardens or market purposes. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.

Earliest French Forcing

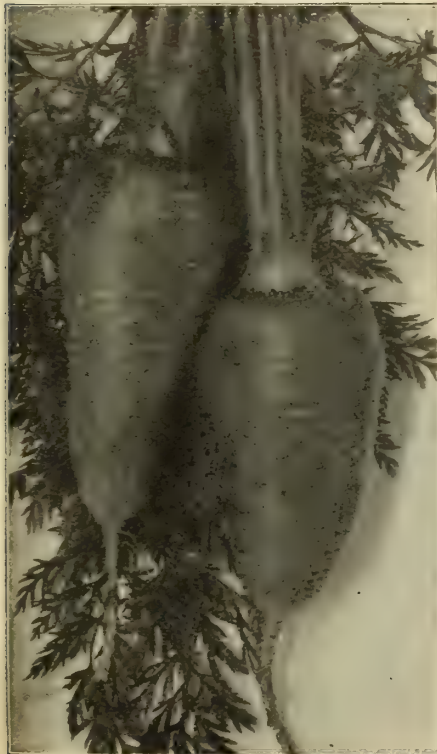
The earliest small round variety, much used for first early forcing. Color reddish orange, and bunches very nicely; used largely for market, as well as kitchen garden. Quality the best. Pkt., 5c.; oz., 20c.; ¼ lb., 50c.

Oxheart, or Guerande

Intermediate length; is fully 3 to 5 inches in diameter; quality extra good. Some sorts require digging, but the Oxheart can be easily pulled. It is especially adapted to shallow soils, where the longer sorts would not thrive as well. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.

Nantes Half-Long (Stump-Rooted)

Sweet and fine flavored; almost without a core; very fine grained; excellent for the home garden or market. One of the finest in quality and handsomest in shape of the medium-sized sorts. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.



Chantenay, or Model—a fine market variety



Danvers Half-Long

Carrots for Stock Feeding

Too much cannot be said in praise of the Carrot as a wholesome addition to the Winter feed for stock, apart from its great value as a vegetable for table use. The splendid roots make a most desirable change of feed for your cattle when given in connection with grain and dry fodder. Plant plenty of Carrots for all purposes.

Improved Short White—Very large, half-long roots; pearly white. It is the heaviest cropper known. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Large White Belgian—Standard for field culture. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

What Customers Think of "True Blue" Seeds

C. S. Leaming, Bernalillo Co., New Mexico, writes (8-12-13): "We contemplate raising fifty acres of sugar corn next year. It is the first "sugar" corn ever raised successfully here and we have created a demand that only a large quantity of it will supply."

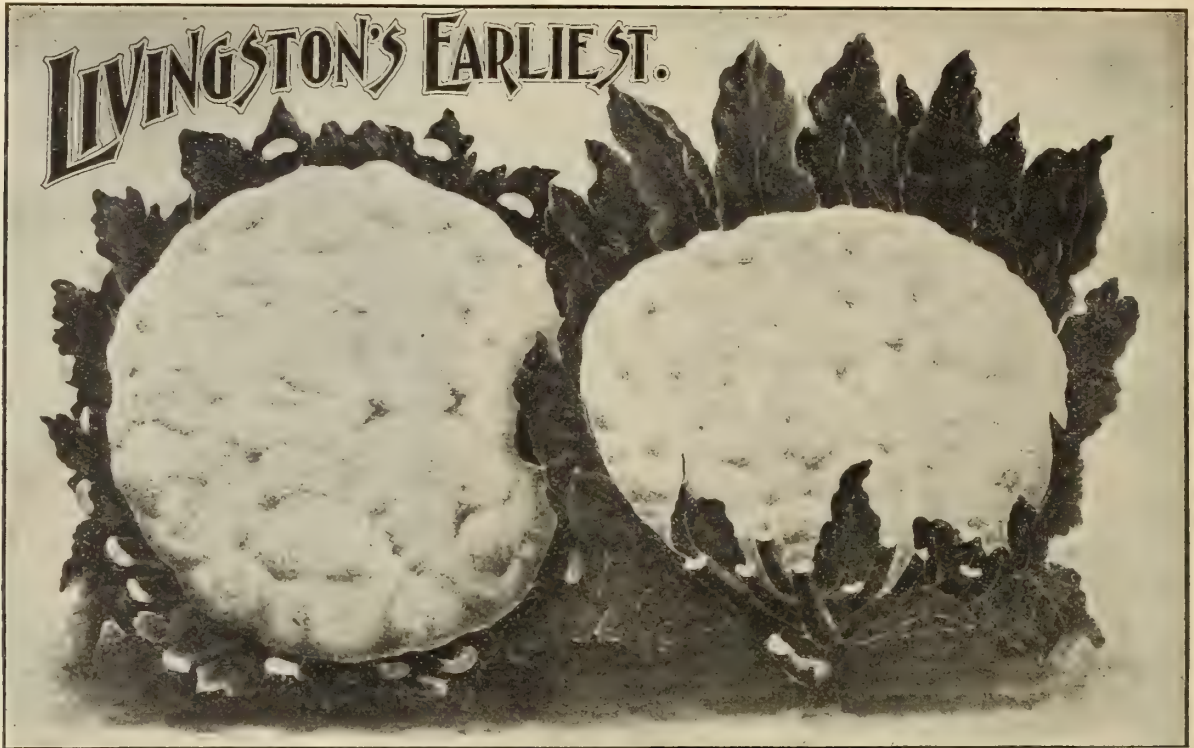
Fred Schwartz, Miami Co., Ohio, writes (8-4-13), as follows: "We have made Tomatoes our special crop for a number of years. We are now on our sixth week with Tomatoes at the price of \$4.00 per bushel, wholesale. We do only a wholesale business. We surely think a great deal of that Globe Tomato; would not have anything else. It is the finest Tomato that grows. We have about one acre of this variety. The Globe we marketed before our Earliana. Always considered Earliana an early Tomato, but have changed my mind."

Taylor Wilson, Wicomico Co., Md., writes: "The Tom Watson Water Melon seed I got from you last year was the truest I ever saw. There was not a mixed one in the patch. I had the best patch of Water Melons that was around here. Everybody who saw them said they were the best they ever saw in their life and the truest Tom Watson. People asked me where I got my seed and I told them from you people. I will buy from you as long as you treat me right and will do all I can for you."

Paul Holcomb, Ashtabula Co., O., writes (3-22-13): "Having been a customer of yours for a few years, would like to say I have always found your seeds first class. Last year I tried some of your Hubbard Squash; they outdid any I ever raised. Largest one weighed 21 pounds, and kept well all Winter; we are eating the last of it now. Last season I also planted your collection of Spencer Sweet Peas. They outgrew anything around here and I had blossoms all Summer and later than any others I have tried."

Mrs. E. L. Parrish, Butte Co., Cal., writes (1-8-13): "The first seed of Coreless Tomato that I had came from your firm. They were very satisfactory, producing the finest Tomatoes I ever saw."

Mellie Schuler, Holmes Co., O., writes (4-14-13): "Received a package of your choice mixed Primrose seed last year and had elegant flowers all Winter—so many beautiful colors. I think every seed planted brought forth a stalk."



Coliflor **Cauliflowers** Blumenkohl

Cauliflowers delight in a rich, moist soil, and in dry seasons should be abundantly watered, especially when heading. Sow the seed in the hotbed in January or February, and transplant the plants 2 or 3 inches apart in boxes or in another hotbed, until such time as they are safe to be planted in the open ground. Set the plants in the field 2 feet by 15 inches apart. If properly hardened off, they are seldom injured by being planted out too early. When heading, tie the outside leaves loosely over the head to protect it from the sun. Cauliflowers should be kept constantly growing, as the crop may be injured if growth is checked at any time. **One ounce produces from 1500 to 2000 plants.**

Dry-Weather Cauliflower

(Also known as **Danish Giant** and **Gilt-Edge**.) This is a fine, large, heavy variety that matures about a week later than Livingston's Earliest Cauliflower. It is especially adapted for growing in dry locations on account of its large leaves, which furnish greater protection to the heads. To secure a large crop of the best solid heads it is essential that the ground be well enriched and most thoroughly cultivated during the growing season. $\frac{1}{2}$ size pkt., 15c.; pkt., 25c.; $\frac{1}{4}$ oz., 80c.; oz., \$2.75; $\frac{1}{4}$ lb., \$10.00.

Danish Perfection

A new variety which comes to us highly recommended. It is similar in growth to Livingston's Earliest, but is even earlier, coming eight to ten days ahead of it, on the introducer's grounds. It is extremely uniform in type, the heads very solid and the introducers state the leaves fold so closely about the head that it blanches finely with very little trouble on the part of the grower. We believe it is well worthy of trial by those growing Cauliflower. $\frac{1}{2}$ size pkt., 15c.; pkt., 25c.; $\frac{1}{4}$ oz., 80c.; oz., \$2.75; $\frac{1}{4}$ lb., \$10.00.

Livingston's Green-House Forcer—For a great many years we have realized that a variety of Cauliflower that would grow in a small space, and, at the same time, combine all the good qualities of our best sorts would be greatly appreciated by everyone who forces this vegetable under glass. Livingston's Green-House Forcer is unexcelled for this purpose. $\frac{1}{2}$ size pkt., 15c.; pkt., 25c.; $\frac{1}{4}$ oz., 85c.; oz., \$3.00.

Henderson's Early Snowball—One of the best types of Cauliflower on the market. Its compact habit of growth renders it a very profitable variety to force under glass, and it does well for late planting, as well as for early crops. It is a sure header. $\frac{1}{2}$ size pkt., 15c.; pkt., 25c.; $\frac{1}{4}$ oz., 75c.; $\frac{1}{2}$ oz., \$1.40; oz., \$2.50; $\frac{1}{4}$ lb., \$8.50.

Veitch's Autumn Giant—Heads are beautifully white, large, compact. Pkt., 10c.; $\frac{1}{4}$ oz., 25c.; oz., 50c.; $\frac{1}{4}$ lb., \$1.50; lb., \$5.50.

Extra-Early Dwarf Erfurt—Dwarf habit, compact growth; short outside leaves. Can be planted 20 inches apart. Pkt., 25c.; $\frac{1}{4}$ oz., 75c.; $\frac{1}{2}$ oz., \$1.40; oz., \$2.50; $\frac{1}{4}$ lb., \$8.50.

Large Late Algiers—Popular with canners and market gardeners. Ample foliage protects the heads well, which remain a long time fit for use. Pkt., 10c.; $\frac{1}{4}$ oz., 30c.; oz., 75c.; $\frac{1}{4}$ lb., \$2.00.

Livingston's Earliest

Our grower in Denmark spares no pains or expense with this stock. For wintering in cold frames it cannot be excelled and it does equally well for a Fall crop if planted late and treated the same as late Cabbage. Livingston's Earliest Cauliflower should take the place of many of the late varieties on account of its fine texture, pure white heads, and large, uniform size. A most compact grower and a sure header. Market gardeners throughout the country are perfectly satisfied with it. Price (under our True Blue Seal), $\frac{1}{2}$ size pkt., 15c.; pkt., 25c.; $\frac{1}{4}$ oz., 80c.; oz., \$2.75; $\frac{1}{4}$ lb., \$10.00.



**Livingston's
Green-House
Forcer**

Apio **Choice Celery Seed** Sellerie

One Ounce of Seed Produces 2,000 Plants

Self-Blanching Sorts
Selected White Plume

Stalks and portions of the inner leaves and heart are so nearly white naturally that tying or simply drawing the soil up against the plants will complete the work of blanching. It is very ornamental. Early, of good flavor and fine texture; adapted to Fall and early Winter use; a good keeper up to the holiday season. Pkt., 5c.; ½ oz., 15c.; ¼ lb., 60c.; lb., \$2.00.

Golden Self-Blanching

This grand Celery is of French origin. It has the demand above all other sorts because of its many superb qualities. It has the same self-blanching habit as White Plume, but is much heavier and more compact, though not so early. Grows to good size, is very tender and free from strings, the heart large and solid, crisp, brittle, of excellent quality and very beautiful.

American grown seed from French stock seed—This has proven after repeated trials to be equal to French grown fancy stock. Pkt., 15c.; ¼ oz., 45c.; ½ oz., 80c.; oz., \$1.45.

Livingston's Snowwhite—It is without a rival in purity of color; crisp, tender and of good size. In vigor of growth, ease of blanching, richness of flavor and beauty of stalk, "Snowwhite" is ideal. Single stalks sometimes weigh 2½ pounds and quite frequently 2 pounds. It grows solid on all kinds of soil and keeps better than a great many of the best standard varieties. Owing to almost complete failure of crop can offer in packets only. Pkt., 10c.

Winter Varieties

Of firmer texture than preceding sorts and consequently better keepers. They require more time to blanch, but are of very superior flavor.



White Plume

Giant Pascal

Forms solid, crisp stalks of incomparable flavor. Of strong growth, producing perfectly blanched stalks when hilled up properly. Of rich, nutty flavor. Blanches very easily and is very brittle. A fine keeper, an excellent shipper, retaining color and fresh appearance a long time. A favorite with Southern growers. For mid-Winter and early Spring use it is excellent. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.25.

Boston Market—An excellent keeper; remarkably tender, crisp, solid. Best for light soils. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 50c.

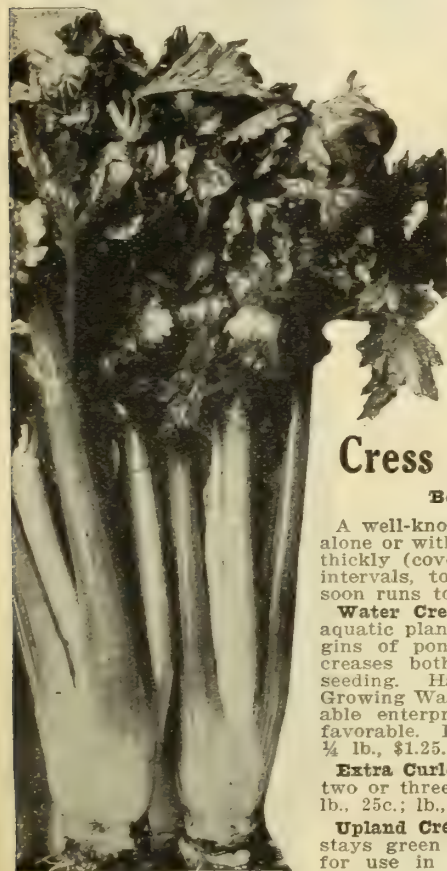
Perle Le Grand—A good early Celery. Handsome, stocky, robust; rich, nutty flavor; a long keeper. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.40.

Evans' Triumph—A splendid long keeper of extra fine flavor. Healthy, strong grower, crisp and tender. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

Dwarf Golden Heart—Solid, an excellent keeper and of fine, nutty flavor. Heart, which is large and full, is a light yellow. A showy and desirable variety for market. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

Giant Golden Heart—In quality, appearance and large size, it is one of the best. One of the best varieties for market gardeners. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 55c.; lb., \$1.75.

Winter Queen—Of short, stocky growth, with broad, heavy stalks. Fine for Winter use. Pkt., 5c.; oz., 20c.; ¼ lb., 55c.; lb., \$1.75.



Giant Pascal

Cress or Pepper-Grass

Berro Kresse

A well-known pungent salad; can be used alone or with lettuce. Requires to be sown thickly (covering very lightly) at frequent intervals, to keep up a succession, as it soon runs to seed.

Water Cress—Well-known hardy perennial aquatic plant. Is easily grown along margins of ponds and streams, where it increases both by spreading of roots and seeding. Has a pleasant pungent flavor. Growing Water Cress should prove a profitable enterprise where the conditions are favorable. Pkt., 10c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.25.

Extra Curled (Pepper-Grass)—May be cut two or three times. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Upland Cress—This is a hardy perennial; stays green nearly the whole year; ready for use in the Spring before any other salad. Eaten like Lettuce or boiled like Spinach. Sow in April in rows 1 foot apart. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.

Celeriac, (or Turnip-Rooted Celery)

Sow seed the same way as for Celery. Transplant into rows 2 feet apart and 9 inches in the row. Thorough cultivation is necessary to secure good roots. Earthing up is not necessary. The roots may be cooked or used as salad.

Giant Smooth Prague—A large and smooth variety. Desirable for market; an excellent keeper. Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

Corn Salad or Fetticus

A vegetable used as a salad. Sow the first opening of Spring in rows 1 foot apart, and it is fit for use in six or eight weeks.

Large Leaved—Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Collards

A plant of the Cabbage family. It is well adapted to the South, enduring extreme heat; excellent for greens.

True Southern, or Georgia—Pkt., 5c.; oz., 10c.; ¼ lb., 35c.; lb., \$1.25.

Maiz dulce **Corn, Sweet or Sugar** Spelse Mais

The Sweet or Sugar Corn Varieties, being liable to rot in cold or wet ground, should not be planted until May, or when the soil has become warm and dry. For a full supply for the table during the entire season, plant every ten days or two weeks until the last week in July, in hills 2x3 feet apart for the early kinds, and 3x3 feet for the large late sorts. Some plant in rows 3½ feet apart and 8 inches apart in the rows. Give frequent and thorough cultivation all the season. **One quart of seed corn plants 200 to 300 hills; 9 to 10 quarts will sow an acre.**

Pint and Quart Prices include Postage. If to go by express, at buyer's expense, deduct 15c. from quart, or 8c. from pint prices. Please bear in mind that Parcel Post Rates do not apply on seeds. You can now mail up to 20 lbs. in weight, but the rate of 8c. per lb. still applies. Half-pecks, pecks and bushels sent at buyer's expense.

Golden Bantam

Were we asked to name the **sweetest** Sweet Corn, we would unhesitatingly say "Golden Bantam." It is not only the sweetest, but also one of the hardest, and what it lacks in size is more than made up by its other grand qualities. The ears are from 6 to 7 inches long, eight rowed, filled with broad, sweet, golden yellow kernels of a delightful flavor. It may be planted with perfect safety from ten days to two weeks earlier than other Sweet Corns. The dry seed is quite solid and is not as apt to rot as that of the softer kinds. It is as early as the Cory and of much better flavor. Pkt., 5c.; ½ pt., 15c.; pt., 25c.; qt., 40c.; ½ pk., 65c.; pk., \$1.10; bu., \$4.00.

Columbus Market

Ready for table with the second earlies, such as Crosby's Early, Shaker's Early, etc., but is fully twice as large as any of them. The ears carry an average of 16 rows of fine large, deep, white and very sweet grains, which are second to none in tenderness and flavor. The stalk is very strong, sturdy and of only medium height; the leaves broad and dark green in color, a habit of growth which gives it great endurance during a dry time. Especially adapted for early trucking; also **very desirable for the home garden.** Pkt., 5c.; pt., 20c.; qt., 35c.; ½ pk., 60c.; pk., \$1.00; bu., \$3.50.

Extra-Early Premo

A "sixty-day" Sweet Corn that combines all the merits of the leading varieties, and is superior to many of them in size, quality and yield. Premo can be planted fully as early as the Adams, for the young plants withstand slight frosts, while the other varieties are tender. The stalks grow about 5 feet high, and are very vigorous, generally bearing two well-developed ears to the stalk. Pkt., 5c.; ½ pt., 15c.; pt., 25c.; qt., 40c.; 4 qts., 65c.; pk., \$1.15; bu., \$4.00.

Livingston's Early Sugar

(See Novelty and Specialty Pages)

This is a remarkably fine early variety; a heavy cropper producing large ears for so early a variety, and a great drouth resister. The ears have such a thick husk that they are rarely troubled by worms and are of fine appearance and excellent flavor. Pkt., 10c.; pt., 25c.; qt., 40c.; ½ pk., 70c.; pk., \$1.25; bu., \$4.50.

Livingston's Earliest on Earth

(See Back Page of Cover)

This is without doubt the earliest of all Sweet Corns, and possesses the quality which has made Golden Bantam so popular. It is about ten days earlier than the latter and has a larger ear. Be sure and try it. Pkt., 15c.; 2 pkts., 25c.

Extra-Early Adams

Hardest and earliest Corn. It is not a Sugar Corn, but is grown for early use. Ears short; kernels very white. Pkt., 5c.; pt., 20c.; qt., 35c.; pk., 95c.; bu., \$3.25.

Early Adams

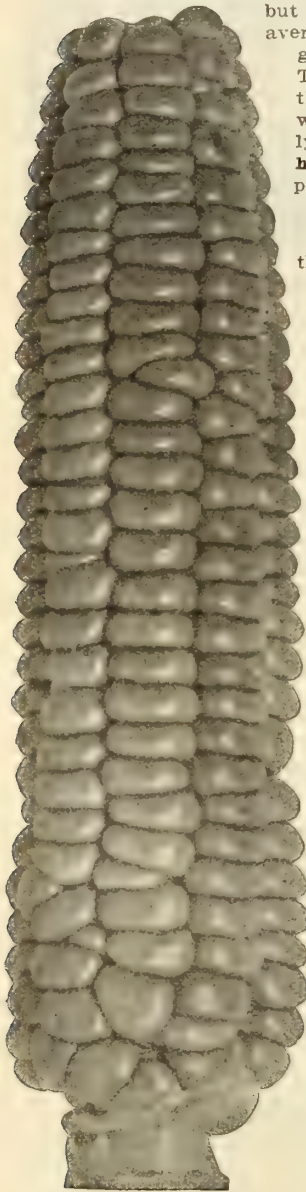
Similar to Extra-Early Adams; ear somewhat larger, but not quite so early; is good for early table use. Like the above, is hardy, and can be planted early. Pkt., 5c.; pt., 20c.; qt., 35c.; pk., 90c.; bu., \$3.00.

Mammoth White Cory—This new strain is as early as the original Extra-Early Cory, with ears of larger size, and kernels more compact. Cob and kernel are pure white. Pkt., 5c.; pt., 25c.; qt., 40c.; ½ pk., 65c.; pk., \$1.10; bu., \$4.00.

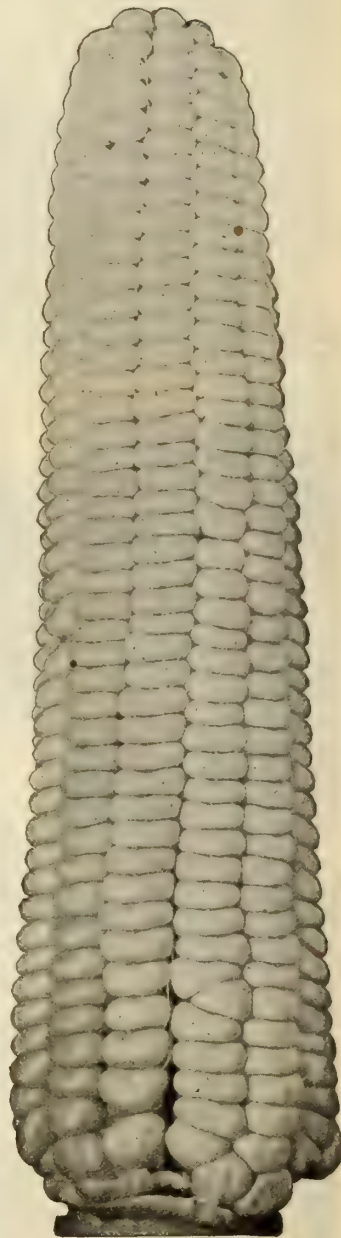
Extra Early Cory—One of the earliest varieties. Large ears, considering size of stalk; small red cob, well filled up with handsome and very sweet kernels. Pkt., 5c.; qt., 20c.; qt., 35c.; pk., \$1.00; bu., \$3.50.

Extra-Early White Cory—Identical with Extra-Early Cory, except color; the cobs are white. Pkt., 5c.; pt., 25c.; qt., 40c.; ½ pk., 65c.; pk., \$1.10; bu., \$4.00.

Peep-O'-Day—The stalks of Peep-O'-Day Corn grow from 3½ to 4½ feet high and bear from 2 to 3 ears each. The foliage is light green, and, being small, stalks will stand very close planting. Have the rows just far enough apart to admit of thorough cultivation. Pkt., 10c.; pt., 25c.; qt., 40c.; ½ pk., 65c.; pk., \$1.10; bu., \$4.00.



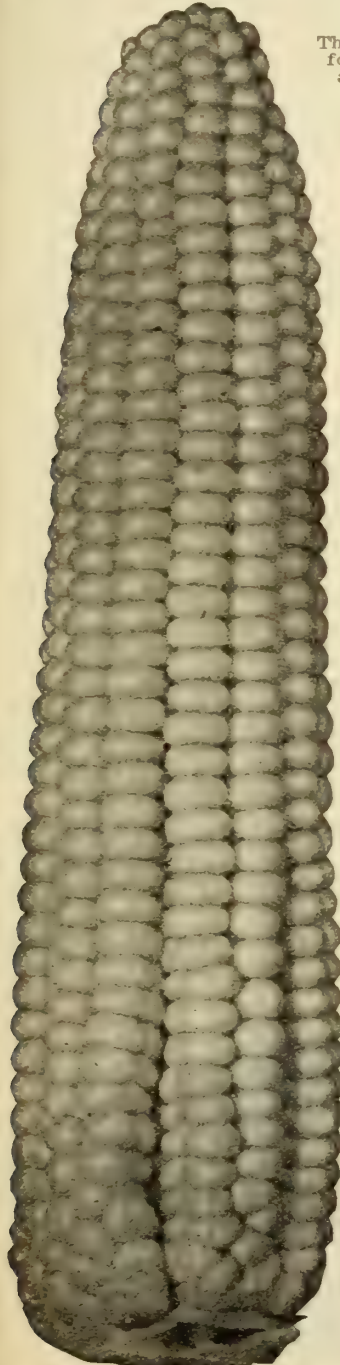
Golden Bantam



Columbus Market
(Two-thirds Natural Size)

Kendel's Early Giant

(See illustration)—The ears are large, measuring 8 to 9 inches long, thick through, with ten or more rows of plump and purest white kernels, that are of most deliciously sweet flavor. It is several days earlier than Crosby's Early, which gives it the distinction of being an early and at the same time a large-eared variety. Gardeners report this Sweet Corn ready to use in sixty days when grown on sandy soil, and in seventy-two days on heavy ground. We first offered Kendel's Giant Sweet Corn to our customers some ten years ago, and it has given the greatest satisfaction ever since to both market gardeners and home gardeners alike. Owing to our skillful selection year after year, Kendel's Early Giant has become a much more valuable sort than when first introduced. Pkt., 5c.; pt., 25c.; qt., 40c.; ½ pk., 65c.; pk., \$1.10; bu., \$3.75.



Kendel's Early Giant

Earliest Catawba

Is of delicious flavor. Ears average 7 inches in length and contain 8 rows of broad kernels of delightfully distinct flavor. Often 3 ears are borne on one stalk and if suckers are permitted to develop, as high as 5 ears may be gathered off one plant. Small white cobs. Pkt., 5c.; pt., 25c.; qt., 45c.; ½ pk., 90c.; pk., \$1.50.

Early Evergreen

An early strain of Evergreen Sweet Corn must be of great value. This variety resembles the Stowell's Evergreen, but is ready for use much earlier, and remains in good condition equally as long. The ears grow to a good size, usually about 7 inches long, and contain from 16 to 18 rows of deep, sweet grains. Pkt., 5c.; pt., 25c.; qt., 40c.; 4 qts., 55c.; pk., \$1.00; bu., \$3.50.

Shaker's Early

This fine Corn is a splendid market variety, being large and well formed. It comes in a little later than the "first earlies," being a good variety to plant for mid-season. Pkt., 5c.; pt., 25c.; qt., 40c.; ½ pk., 65c.; pk., \$1.10; bu., \$4.00.

Country Gentleman

One of the Richest Flavored of all the late varieties. As a table Corn this variety stands unrivaled, and without doubt is the most luscious of all varieties of Sweet Corn. The plump, pearly-white kernels are of great depth, most delicious, and the flavor will delight an epicure. We have selected this sort for many years and are especially proud of our strain. It comes as true to type as any we have ever seen. Ears average 9 inches long by 2 inches in diameter and are typical "shoe-peg" appearance. Pkt., 5c.; ½ pt., 15c.; pt., 25c.; qt., 40c.; ½ pk., 65c.; pk., \$1.10; bu., \$3.75.

White Evergreen

This is a high-bred pure-white type of the ever-popular Stowell's Evergreen. From one pure white-grained ear, accidentally discovered some years ago, it has developed by careful selection. Stalks very vigorous, 6 to 7 feet high. The ears are uniformly very large and well filled. When in the green state both cob and kernel are white as snow. Pkt., 5c.; pt., 20c.; qt., 35c.; ½ pk., 55c.; pk., \$1.00; bu., \$3.50.

Livingston's Evergreen

(Red Cob)

(See illustration)—Our old original variety, introduced by us in 1860, and now a general favorite for family use, as well as market purposes. It is a first-class second-early sort. Productive, large, well-filled ears, with broad kernels and small cob, filled well over tip. Pkt., 5c.; pt., 20c.; qt., 35c.; ½ pk., 55c.; pk., 90c.; bu., \$3.25.

Livingston's Evergreen (White Cob)

This is our old Livingston's Evergreen (described above), with a white cob. Pkt., 5c.; pt., 20c.; qt., 35c.; ½ pk., 55c.; pk., 90c.; bu., \$3.25.

Livingston's Broad-Grained

The grains are enormous when in the roasting ear stage. The ears are largely of the eight-rowed type. Matures a little earlier than Livingston's Evergreen. Pkt., 10c.; pt., 25c.; qt., 40c.; 4 qts., 65c.; pk., \$1.10; bu., \$3.75.

Stowell's Evergreen

A favorite with canners and market gardeners for late use and especially for the kitchen garden. Ears large, kernels very deep, tender and of most delicious sweetness; very productive. Pkt., 5c.; pt., 20c.; qt., 35c.; ½ pk., 55c.; pk., 90c.; bu., \$3.25.

Black Mexican—One of the sweetest varieties; color when in roasting ear, purple and white; also a fine late sort. Pkt., 5c.; ½ pt., 15c.; pt., 25c.; qt., 45c.; ½ pk., 75c.; pk., \$1.25.

Mammoth Late Sugar—Produces larger ears than any other Sugar Corn, and of good quality; a rich and very sweet late variety. Pkt., 5c.; pt., 20c.; qt., 35c.; ½ pk., 55c.; pk., \$1.00; bu., \$3.50.

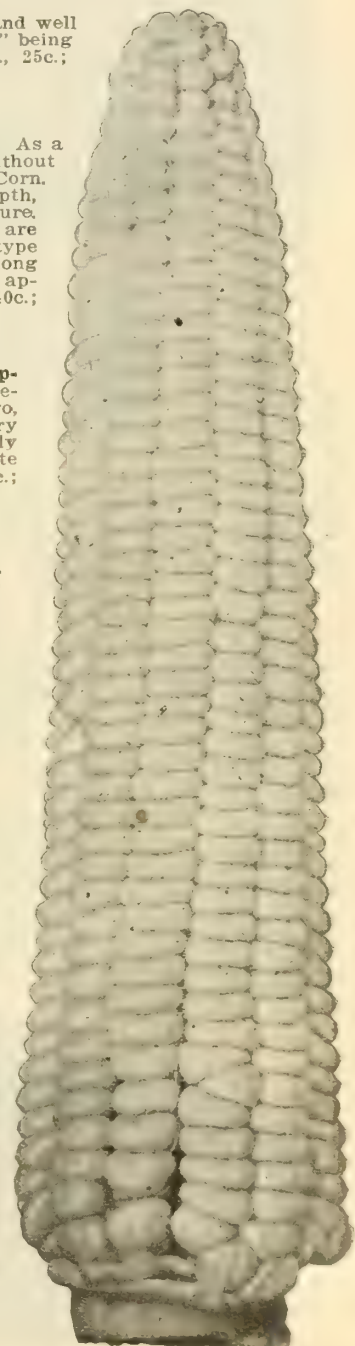
Early Minnesota—White cob and kernels. Pkt., 5c.; pt., 20c.; qt., 35c.; ½ pk., 55c.; pk., \$1.00; bu., \$3.50.

"4 Best" Sweet Corns for Home Gardens

This collection will supply the table continuously throughout the entire season: **Golden Bantam** (extra early), **Columbus Market** (early), **Country Gentleman** (main crop), **New White Evergreen** (late). 1 large pkt. each of above, 15c., postpaid. 1 pint of each, 75c.; 1 quart of each, \$1.35. All sent postpaid.

Sweet Corn for Fodder

Sow thickly in drills or broadcast at the rate of 2 to 3 bushels per acre. Pk., 75c.; bu., \$2.50.



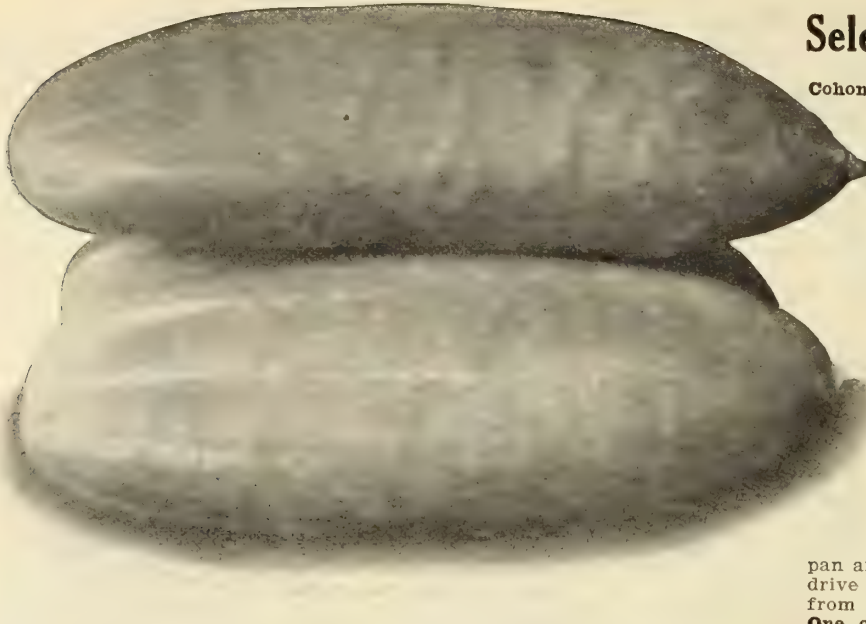
Livingston's Evergreen

Select Cucumber Seeds

Cohombros o Pepinos

Gurken

As soon as the weather has become settled and warm, plant in hills 4 to 6 feet apart each way, with 8 to 10 seeds in a hill; cover one-half an inch deep, smoothing the hill off with the hoe. When the plants are out of danger of insects, thin out to three or four plants to a hill. The seed may also be sown in rows 6 feet apart, with the seed every few inches in the row. When danger from bugs is past, they must be thinned out to 3 or 4 feet apart. This latter way of planting insures a good "stand," as the bugs can not take all of them. Four or five moth balls placed in a dish or pan and set close to the hill are said to drive away bugs. For pickles, plant from first of June to first of August. **One ounce of seed will plant about 50 hills; one to two pounds to the acre.**



Livingston's Selected White Spine

Livingston's Selected Extra-Early White Spine

(See illustration)—For over thirty years we have worked on this strain which we consider the most thoroughbred obtainable in this country. Fruits are uniform and shapely, of beautiful dark green color, with just an indication of white at blossom end. They are of symmetrical shape, average 6 to 7 inches long and about 2½ inches in diameter. Flesh is firm and solid, with few seeds, crisp and of elegant flavor. Of perfect cylindrical form, without neck, and the handsome dark skin remains green a long time. We consider it the most thoroughbred strain of White Spine in existence. **Selected seed, grown on our own farms—Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.**

Davis Perfect

By using this variety gardeners can produce out-of-door Cucumbers that will sell in the market for hothouse forcing varieties. The shape is ideal. It is almost seedless one-third of its length from the stem, and the few seeds that are contained in its blossom end when in eating condition are so small and tender that they are hardly noticeable. Most important of all, it does not lose its dark, rich color when grown outdoors. It is hard to tell the difference between it and a hothouse cucumber. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

Klondike

Excellent strain of White Spine, remarkable for the uniformly dark green skin of its shapely fruits. Popular with Southern planters who find a ready market for it in the North. Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

Extra-Early Russian—Small, extra-early, hardy; productive, good for small pickles. Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

Early Frame, or Short Green—A popular early variety of medium size and good shape; good for small pickles. Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., 90c.

Improved Long Green

(See illustration on next page)—Long and crisp; one of the very best for the family garden; also popular and reliable for pickles. **Extra choice stock grown on our own farms—Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.**

Nichol's Medium Green—Introduced by us in 1883. Color dark green; flesh crisp and tender; medium size; straight and smooth; a real handsome and prolific variety. Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

Early Green Cluster—Short and prickly; bearing in clusters; prolific; fine for bottling. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Green Prolific, or Boston Pickling—Of uniform growth, seldom too large for pickling; immensely productive. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

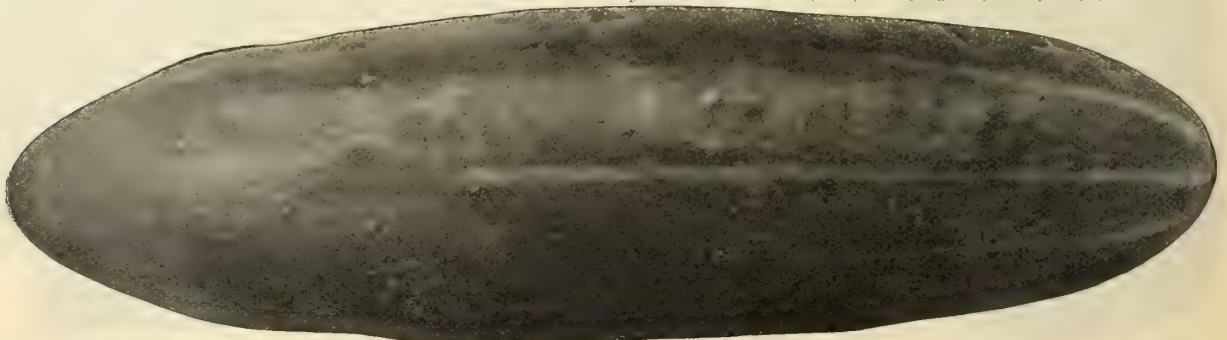
Extra-Long, or Evergreen White Spine—Averages longer than other strains. Extra fine shape and quality; makes a good pickle; used extensively for growing under glass. Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

Arlington Improved White Spine—For market use and pickling it is superior to the old White Spine. Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

Hill's Forcing White Spine—Large, straight and well formed; full at ends; productive; skin deep green, holding color well. Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

Cool and Crisp—The beautiful green color is all that can be desired. Excellent for pickling or slicing. Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

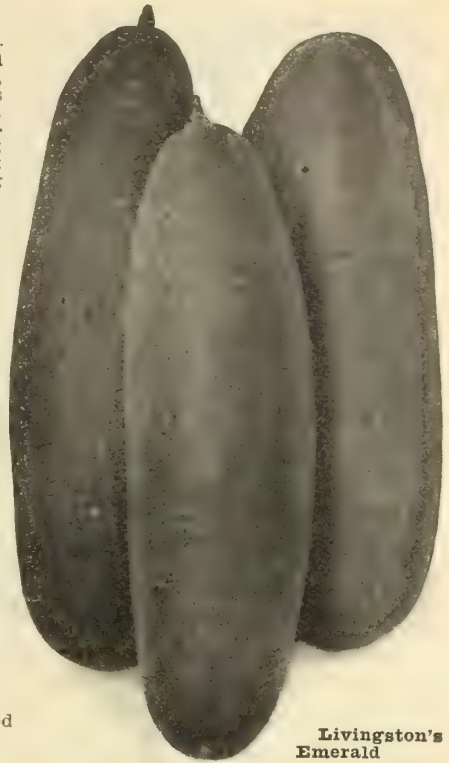
Cumberland—Is of the hardy, White Spine type. The pickles differ from all other hardy sorts in being thickly set with fine spines over almost the entire surface. During the whole period of growth the form is very straight and symmetrical, thus being as choice for slicing as for pickles. Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.



Livingston's Selected Davis' Perfect Cucumber

Livingston's Emerald

(Introduced by Us in 1897—See illustration)—We were eight years in perfecting this variety which represents a dark-green Cucumber that will hold its color. It is strictly an evergreen, retaining its color until quite ripe, making it very attractive. The plant sets early, and its vigorous vines abound in long, straight, handsome fruits of the most desirable qualities. As a slicer the flesh is perfectly crisp and tender, and the flavor most pleasing. The young fruit is dark green, straight, slender and almost spineless; makes an excellent pickle, and when ripe none excel it for making sweet pickles. It is not excelled for beauty in color and form. Excellent shipping variety. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.



Livingston's Emerald

Livingston's Evergreen Pickling

(Introduced by Us in 1890.) Generally admitted to possess every qualification required in a perfect pickling Cucumber. Exceptionally productive. One grower says it bears "four to one" compared with many standard sorts. It is a very strong grower, extra-early, and bears firm, crisp fruits, which are excellent for slicing also. We devote the greatest care to the selection of this seed stock. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

Japanese Climbing Cucumber—Vines extra strong; being a climbing sort, can be grown on trellises or other supports; valuable in small gardens. Very prolific, from 40 to 50 fruits having been counted on single plants. The Cucumbers are long and of fine flavor. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

Gherkins (True West India)—Used only for pickles. Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

Serpent, or Snake Cucumber—A great curiosity. The Cucumbers grow curled up like a snake, with head protruding; sometimes several feet in length. Pkt., 10c.; ½ oz., 15c.; oz., 25c.

Westerfield Chicago Pickling—Popular with Chicago gardeners. Medium length, slightly pointed at ends; very large; prominent spines; deep green. Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

Jersey Pickling—Intermediate between Long and Short Green. Long, slender, cylindrical; crisp and tender. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Giant Pera—Large, smooth and straight; flesh white, crisp and tender; good for slicing. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.50.

"Lemon" Cucumber—A new and desirable variety, having a strong resemblance to a lemon in its size, shape and color. It has a thin skin. The crispness, tenderness and sweetness are all that could be desired, and it seems to lack the bitterness of the common Cucumber. Pick just as it turns yellow. Pkt., 10c.; oz., 25c.

Frame and Forcing Cucumbers

Used in greenhouse growing, for which they are especially adapted.

Rawson's Hothouse

A very fine strain of White Spine Cucumbers for forcing or out-door planting. It is an improvement on the White Spine, the fruit being two inches longer and much darker green in color. Pkt., 10c.; oz., 45c.; ¼ lb., \$1.35; lb., \$5.00.

The "Vickery" Forcing

A very fine strain of the White Spine type; is longer than the ordinary White Spine and holds its rich, dark green color well down to the blossom end; immense cropper. A choice variety for hothouse growers; also hard to excel for out-door cultivation. Pkt., 10c.; oz., 45c.; ¼ lb., \$1.25; lb., \$4.50.

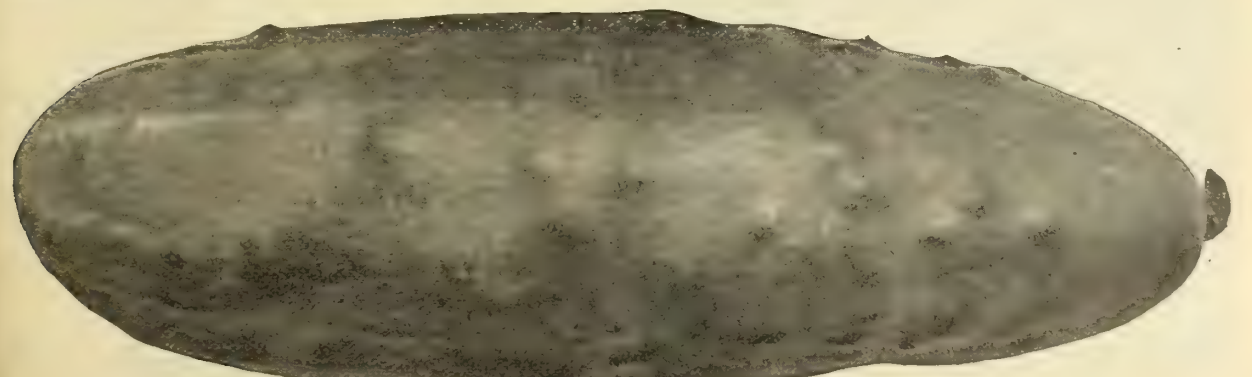
Hollison's Telegraph—Grows about 19 inches long; bright green. Pkt. of 15 seeds, 25c.

Joel M. Haskins, Athens Co., Ohio, writes: "Enclosed find money order to balance account. Have had bully crops this year. The 12-tooth Planet Jr. Cultivator and Harrow has paid for itself more than once this season. I kept it going once a week and the dust sometimes looked like a circus parade. Have the only crop of late cabbage there is in this part of Ohio and the neighbors say. 'Haskins, how did you do it?'"

John Rollason, Blair Co., Pa. (Feb. 15, 1913), writes: "I have always found your seeds good and I recommend them to other people. I was in Florida last October and found that the people were getting seeds that would not grow, so I recommended your seed house to them; told them they could depend upon what you told them."

Mrs. V. A. Braley, Lawrence Co., O. (Feb. 12, 1913), writes: "I only grow a few plants for my own pleasure and the seed obtained of you last year gave perfect satisfaction. This year I want to compete at the County Fair for some of the premiums; hence this order for I wanted 'True Blue Seed'—something to grow."

Wm. Noyen, Kootenai Co., Idaho, writes (1-15-13): "I used your Onion Seed last year and found it O. K. All the seed was the very best. Your Snowwhite Celery I found excellent. Have been raising celery for years, but never had success with it in this country until I tried your Snowwhite; sold all I had for from 75 to 90 cents per dozen."



Improved Long Green Cucumber—The Type We Grow at Our Kirkersville Farms



Livingston's Mammoth Purple Egg Plant

Berinjena **Egg Plant** Eierpflanze

Sow seeds in hotbed or warm greenhouse in March or early in April; if no hotbed is at hand, they may be grown in any light room where the temperature will average 75 degrees. When plants are two inches high, or have formed two rough leaves, transplant them into beds and set 3 or 4 inches apart. Keep beds closed and very warm, shading from direct rays of the sun and giving an abundance of water until the ground is warm and all danger from frost and cold nights is past; then harden the plants by gradual exposure to the sun and air, and increase the supply of water; transplant to the open ground late in May or June, into warm, rich soil, 2 to 3 feet each way, according to the richness of the ground. When about a foot high, draw the earth up to the stems. Care should be used in cutting the fruit so as not to disturb the roots of the plants. **One ounce of seed produces about 1000 plants.**

Livingston's Mammoth Purple

(See illustration of typical fruit grown in "True Blue" trial grounds)

This splendid variety we have obtained by years of the most careful selection and extra cultivation, beginning with a true strain of New York Improved Large Purple. We now have the finest strain of Mammoth Purple Egg-Plant obtainable. It is quite early for such a large sort, a sure cropper, and entirely spineless. The plants are large, vigorous and very productive. The fruit is uniform in color and shape, very large, usually 6 to 8 inches in diameter, but sometimes specimens are grown measuring 10 inches. Skin a handsome dark purple, smooth and glossy. Flesh white, of superior quality. **Selected Seed—Pkt., 10c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.05; lb., \$3.75.**

Florida High Bush—A large fruited purple sort; very popular with Southern growers. Pkt., 10c.; oz., 30c.; ¼ lb., 95c.; lb., \$3.50.

Black Beauty Egg-Plant

From ten days to two weeks earlier than the purple varieties, and of rich, lustrous, purplish black color, and is a distinct sort and a favorite where known. The plants are remarkably healthy in their growth and yield an abundance of large fruits. The fruit is very attractive in appearance. This variety is entirely spineless. Quality the very best. Pkt., 10c.; ½ oz., 20c.; oz., 30c.; ¼ lb., 95c.; lb., \$3.50.

New York Improved Large Purple

A leading variety; fruit very large, oval-shaped, smooth, deep purple; flesh white and of good quality. The seed we offer is a very fine strain of this popular sort. Pkt., 10c.; ½ oz., 20c.; oz., 30c.; ¼ lb., 95c.; lb., \$3.50.

Black Pekin—A globe-shaped variety of superior excellence; glossy black fruit, solid and fairly early. Pkt., 5c.; ½ oz., 15c.; oz., 25c.

Endibia o Escarola **Endive** Endivien Salat

For an early crop, sow in April in drills 15 inches apart, and later thin the plants to stand 12 inches apart in the row.

The main sowings are made in June and July. When nearly full grown, gather up the leaves and tie them by their tips to blanch them. **One ounce of seed will sow 150 feet of drill.**

Fine Green Curled—Hardest variety; the most desirable for home use or market garden. Deep green leaves, beau-

tifully cut and curled; easily blanched. (See illustration on next page.) Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

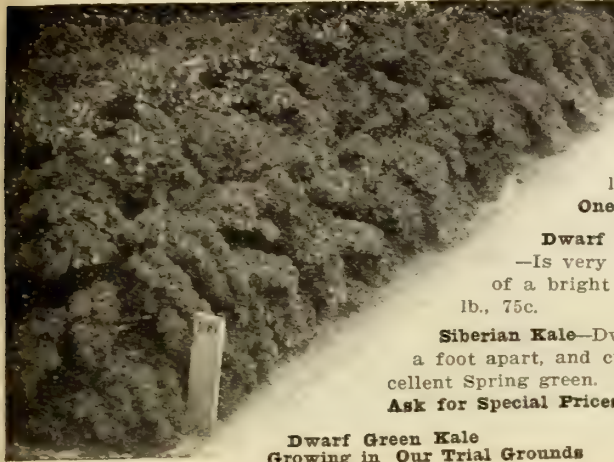
Ever-White Curled—A very beautiful variety. Plants moderately dense; leaves coarser than those of the Fine Green Curled; the mid-rib is yellow and the leaves white. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

Broad-Leaved Batavian—Broad, thick and slightly wrinkled leaves; forms very large heads, which are much used in soups. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.

Dandelion

Sow in May or June, in warm, rich soil, in drills half an inch deep and 18 inches apart. Some of the plants will be ready for use in September, balance the following Spring. Make delicious greens. **One ounce will sow 150 ft. of drill.**

Large-Leaved—Leaves fully double the size of the common Dandelion. Years of the most careful cultivation have developed a very fine strain of seed. Pkt., 10c.; ½ oz., 30c.; oz., 50c.; ¼ lb., \$1.50; lb., \$5.00.



Dwarf Green Kale
Growing in Our Trial Grounds

Kale, or Borecole

Breton Blatterkohl

Kale, or German Greens, do not form heads, but furnish an abundance of pretty curled leaves that are highly prized as food. Sow from the middle of April to the beginning of May; transplant and cultivate like Cabbage. Will endure considerable frost without injury. **One ounce of seed sows 200 feet of drill. 4 pounds sow an acre.**

Dwarf Green Curled, German Greens, or Sprouts. (See illustration) —Is very dwarf and spreading. The leaves are beautifully curled and of a bright green color. Quite hardy. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Siberian Kale—Dwarf growth, bluish green leaves. Sow in September in rows a foot apart, and cultivate the same as Spinach; very hardy and makes an excellent Spring green. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Ask for Special Prices on Large Quantities of Kale Seed.

Gourds

Useful Sorts for the Kitchen-Garden

Gourds are rapid growing and very interesting annual climbers, with ornamental foliage, odd and singular-shaped fruit; being tender, they should not be planted until all danger from frost is over.

Livingston's Extra Fine Mixture of Gourds—A splendid mixture of Gourds, including all the ornamental kinds, both large and small, of various shapes and colors, such as Japanese, Nest Egg, Mock Orange, Dish-Cloth, Turk's Turban, Dipper, Serpent, Bottle, Warty Gourd, Hercules Club, and many other curious and unique varieties. Pkt., 5c.; ½ oz., 20c.; oz., 35c.

Separate varieties of Gourds are listed on page 96.

Herbs

Sweet, Pot, Culinary, and Medicinal

Herbs delight in a rich, mellow soil. Sow in early Spring in shallow drills 1 foot apart; cover lightly with fine soil, and when up a few inches thin out, or transplant into prepared beds. Care should be taken to harvest properly. Do this on a dry day, just before they come into full blossom; dry quickly in the shade, pack closely in bottles or dry boxes to exclude the air. Varieties in the list marked with an (*) are perennials.

	Pkt.	Oz.
Anise	5c	10c
*Balm	5c	15c
*Caraway, lb., 75c	5c	10c
*Catnip, or Catmint	5c	30c
Corlander, lb., 60c	5c	10c
*Fennel, Sweet	5c	10c
*Horehound	5c	20c
*Lavender, Sweet	5c	20c
Peppermint	10c
*Rosemary	5c	35c
*Rue	5c	25c
Saffron	5c	10c
Summer Savory	5c	10c
Sweet Basil	5c	10c
Sweet Marjoram	5c	15c
*Thyme	5c	35c
*Winter Savory	5c	25c
*Wormwood	5c	25c

Dill

This herb is used in large quantities in the making of Dill Pickles; also for flavoring vinegar. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 75c.

Sage

Sow in rich ground and thin out the plants to stand 16 inches apart. Used for flavorings and dressings. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.50.

Kohl-Rabi, (Turnip-Rooted Cabbage)

Col rabano o Nabicol Kohlrabi

When young and tender, they are fine for table use; when matured, they keep splendidly and are excellent for feeding stock. For early use, sow in hotbed, transplant and cultivate like Early Cabbage. For Winter use, plant the middle of June or first of July outdoors in rows 18 inches apart, transplanting or thinning out to 8 inches apart in the rows. **One ounce of seed sows 200 feet of drill.**

Earliest White Vienna—Greenish white outside, with clear white flesh within. Smooth, short leaf; good for forcing; fine in quality. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

Earliest Purple Vienna—Same in every respect as the Earliest White Vienna, except in the outside color. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.25.

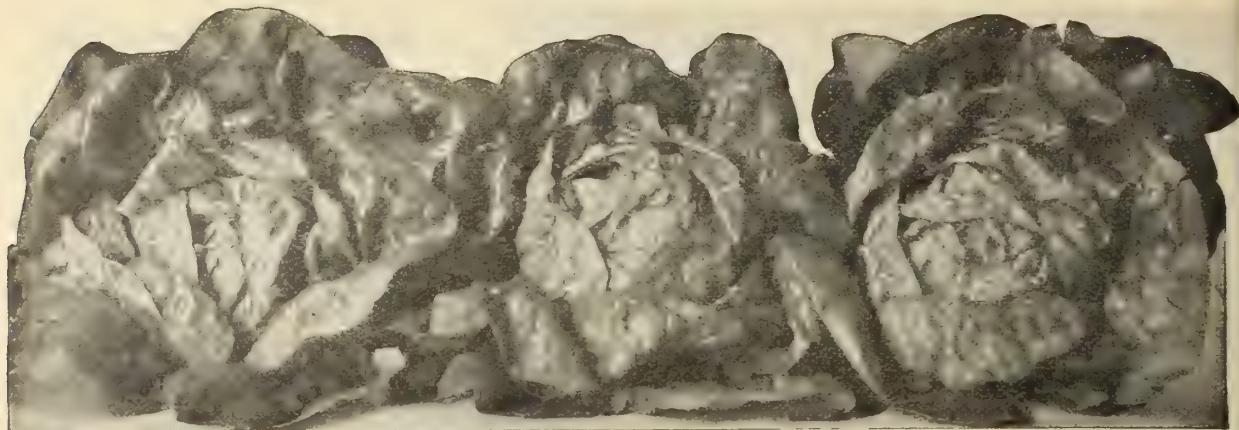
Puerro Leeks Porree oder Lauch

Broad Scotch, or London Flag—A hardy kind; large strong plants with broad leaves. Cultivation the same as for Onions. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

Large Musselburgh (Carentan or Scotch Champion)—Favorite market sort of enormous size; large, broad leaves; flavor is very mild. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.



Endive—Fine Green Curled



Select Big Boston

Lechuga Livingston's Superior Lettuce Seed Salat

One Ounce Will Produce About 3,000 Plants

For early Spring use, sow in a seed bed in September or October, and protect through the Winter in cold-frames, or in the South with leaves or litter; or sow in a hot-bed in early Spring. Lettuce plants may also be started very successfully in the house in boxes which are about 4 inches deep. Make soil very fine and firm. Mark off into rows 2 inches apart and $\frac{1}{4}$ inch deep, into which sow the seed quite thinly; cover with blotting or brown paper fitted into the top of the box. First saturate the paper with water and keep moist until the seed germinates; then remove. Expose the young plants gradually to the light. As soon as the ground outside is dry and warm so that it can be well worked, set out the plants 8 inches apart in the rows. For a later supply, sow seeds in the garden every two weeks from the middle of April until July, choosing varieties according to their heat-resisting qualities. Sow very thinly in rows 18 inches apart, covering seed $\frac{1}{4}$ inch deep with fine soil, and when well up thin to 12 inches apart in the rows. **One ounce of seed sows 100 square feet; plants 120 feet of row, produces 3,000 plants.**

Selected Big Boston

(See illustration of 3 typical heads above.) A very desirable large variety for forcing in cold-frames and for outdoor planting. Plants large, hardy, vigorous. Leaves broad, smooth, thin, of a light green color. One of the most popular sorts in the South for shipment to Northern markets. It forms good-sized heads and does particularly well during the cool Fall and Spring months. Heads of a pleasing light-green color, firm and of superior quality. When grown in cold-frames, the heads are not as tight as when grown outside. One of the best market varieties we know. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.25.

Improved Hanson

None more reliable for outdoor cultivation. Heads grow to a remarkable size, resembling that of a flat cabbage. Extremely slow to run to seed. Outer leaves are bright green, inner leaves white and deliciously sweet, tender and crisp. The stock we offer is unsurpassed and gives entire satisfaction. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.50.

A Head of "Hanson"



Selected Grand Rapids

Especially adapted for greenhouse culture in Winter; also a good Lettuce to sow outside early in the Spring for family use.

Grand Rapids does not form a head, but makes large, compact bunches of light, attractively curled and fringed leaves. It grows very rapidly and keeps in good marketable condition for a long time after cutting. Our strain of Grand Rapids is extra fine. Throughout the season, our grower critically rogues the fields and spares neither labor nor expense to have it uniform and true. Pkt., 5c.; $\frac{1}{2}$ oz., 10c.; oz., 25c.; $\frac{1}{4}$ lb., 75c.; lb., \$2.50.

Denver Market, or Savoy Lettuce—An early head-lettuce for forcing or open ground. Heads are large, solid and of a desirable light green. Leaves are beautifully marked and blistered; crisp, tender and delicious. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.50.

May King



Livingston's "Bon Ton"

(See illustration)—This fine variety is of the Simpson Lettuce type, but comes almost absolutely uniform and true. It has a beautiful light green outer head, changing to a rich cream shade at the heart. The leaves are just enough wrinkled to make them beautiful, yet not enough so as to render it difficult to prepare them for the table. It is especially adapted for local markets and family gardens, but for shipping it is not so good on account of its exceeding crispness. Pkt., 5c.; ½ oz., 15c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

Wonderful Lettuce (New York)

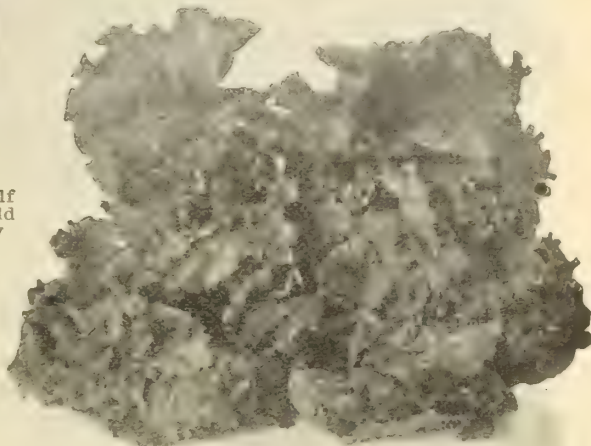
This splendid mammoth heading and long-keeping variety has been grown to weigh 6 pounds to the head, and frequently weighs 2 or 3 pounds. The heart is solid, of light green color, very sweet, tender and crisp. Very long standing, perfect heads may be cut from the same bed for many weeks. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.75.

May King

(See illustration)—This remarkable variety has proven itself capable of satisfying the most exacting requirements that could be made on an early outdoor Lettuce. It is not easily affected by cold or wet weather, grows very quickly and produces, even in poor soil, splendid globular heads very early in the Spring. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.50.

Livingston's Crisp-as-Ice

(Introduced by us in 1895)—A most beautiful, attractive Lettuce of the cabbage type. The heads are solid, of immense size when well grown, and so exceedingly crisp, tender and brittle as to fully warrant the name. Livingston's Crisp-as-Ice. The glossy leaves are thick, nicely crimped and curled; the outside leaves are beautifully variegated with dark bronze and green. The heads, when cut open, have a rich, creamy yellow heart. A superior family and home market Lettuce. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.75.



Defiance Summer

(Perpignan)—Very long standing and one of the finest large growing cabbage varieties. Large, solid heads that are very slow in running to seed. The leaves are a beautiful bright green. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.50.

Livingston's "Bon Ton" Lettuce

Mammoth Black-Seeded Butter

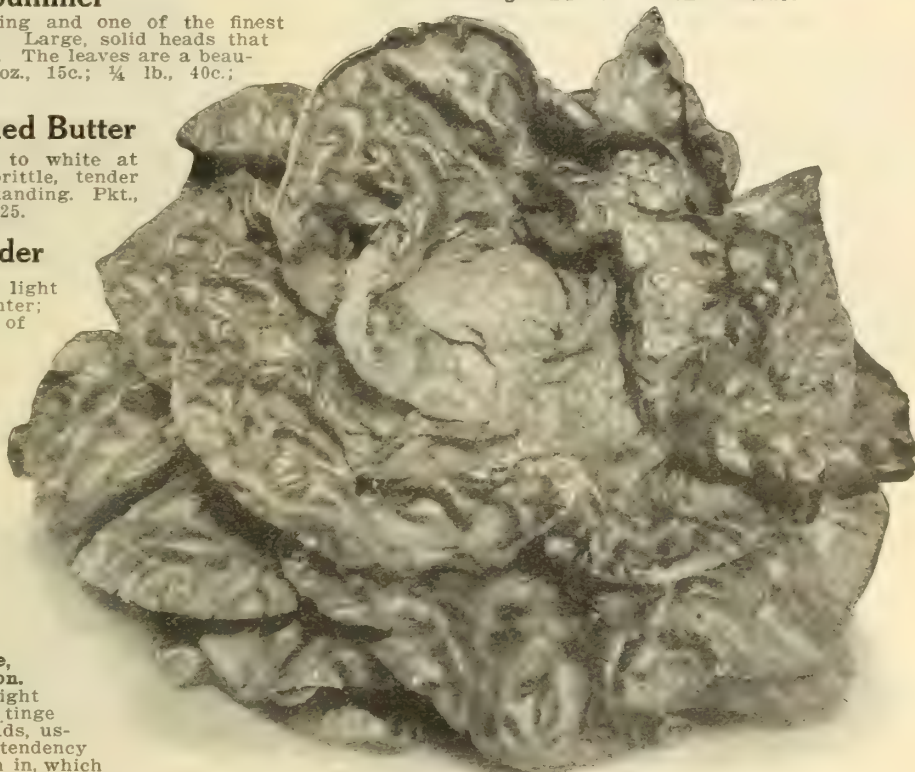
Heads large, solid, blanching to white at center; leaves smooth, thick, brittle, tender and extra fine flavored. Long standing. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

Mammoth Salamander

Large, compact heads; color light green, shading to white at the center; leaves thick, smooth, tender and of fine quality. Pkt., 5c.; oz., 15c.; ½ lb., 35c.; lb., \$1.25.

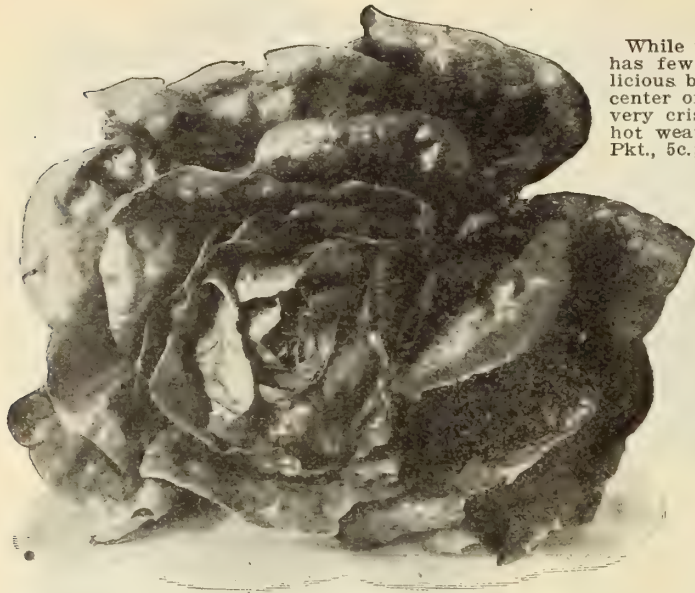
Celery Lettuce, Trianon Cos

This variety is the finest of the Cos or blanching sorts. The long, narrow leaves, which form solid heads, like Early Jersey Wakefield Cabbages, blanch and become snowy white. Excels in quality and crispness. The leaves, when blanched, are stiff like Celery, and can be eaten in the same manner. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.50.



Iceberg—A beautiful Lettuce, worthy of universal cultivation. Large, curly leaves of a bright, light green, with a very slight reddish tinge at the edges. Very handsome heads, usually solid because of the natural tendency of the large, strong leaves to turn in, which also causes thorough blanching. Crisp, tender and fine in every particular. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.50.

Livingston's Crisp-as-Ice Lettuce



Deacon Lettuce

Early White Cabbage, or Philadelphia Butter

This old reliable variety is very tender, has large, solid, greenish white heads and stands the heat extremely well. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.50.

Prize Head

Mammoth heads; even the outer leaves are crisp and tender; light green, tinged with brownish red. Superb flavor; very hardy; fine for home use; too tender to ship any great distance. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.50.

Livingston's Lettuce Mixture

One Sowing Produces Salad for the Season

Contains a grand assortment of decidedly distinct and excellent Lettuces. They mature early, medium and late; some curled and crimped, others produce heads. Colors range from almost pure white, through delicate shades of green and yellow to rich golden. All are delightfully fresh, crisp, tender and of excellent flavor. All sizes, from the small early to the mammoth Summer varieties. Liberal pkt., 10c.; ½ oz., 15c.; oz., 25c.

Special Lettuce Collection

One full-sized packet each of the following: Selected Big Boston, best head Lettuce; Selected Grand Rapids, early curled Lettuce; Deacon, finest "butter head" Lettuce—for 10 cents.

Wm. Wheeler, Greene Co., Ohio, writes (1-13-13): "Two years ago I sent my son in Minnesota a bushel of Livingston's Banner Potatoes. From that bushel he raised 45 bushels on ½ acre. This last year he planted one acre. I saw the field just before digging time. They were the finest I ever saw. We estimated that the acre would yield 700 bushels. He writes me that we overestimated it. He had only 600 bushels on the acre. He seemed satisfied with that."

Deacon

While this Lettuce does not grow as large as some sorts, it has few outside leaves, grows very solid and has that delicious buttery flavor so much sought for and esteemed. The center of the head blanches to a bright yellow shade and is very crisp and tender, remaining so for a long time, even in hot weather. One of the finest sure heading Summer sorts. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.50.

California Cream Butter

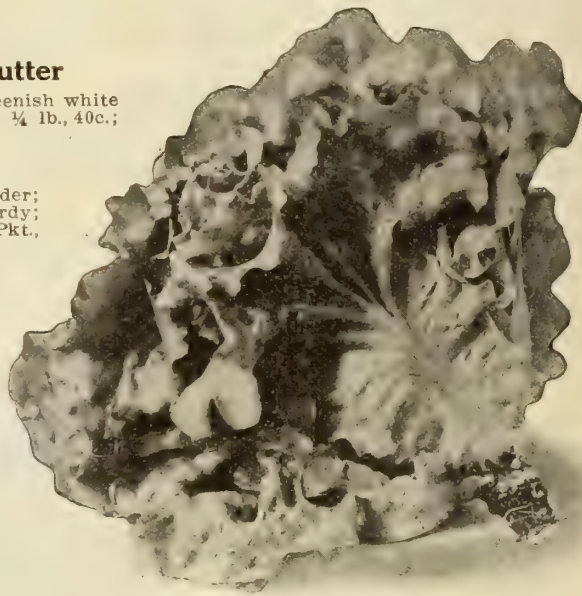
(See illustration)—Extra fine sort of this type, forming splendid, large, compact heads in cool weather. Heads round and solid; outside green; within the leaves are a rich, creamy yellow color; most delicious and buttery in taste. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.50.

Black-Seeded Simpson

Is very popular among market gardeners, and fine for the home table. Forms a large, loose head. Its nearly white, curly leaves are large, thin, very tender and of good quality. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

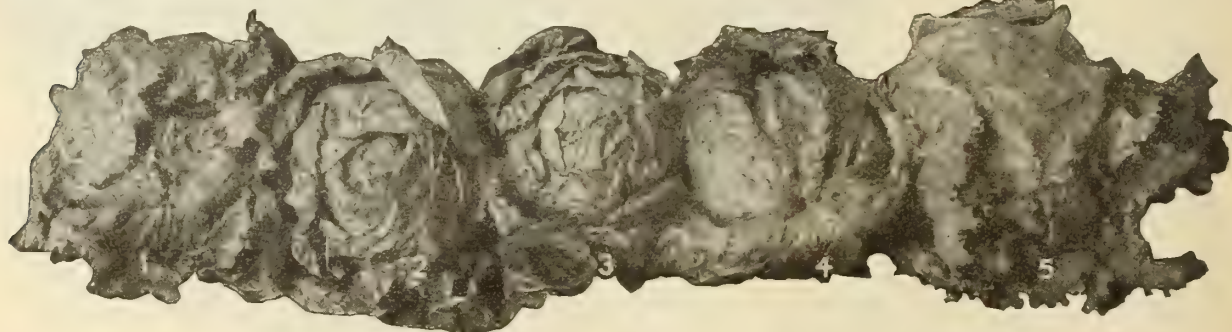
Early Curled Simpson

A leading early sort; does not head, but forms a compact mass of curly leaves of yellowish green. Matures early; generally grown in cold-frames and as an early crop. Very tender and most crisp. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.



Black Seeded Simpson

L. W. Wible, Kendallville, Noble Co., Ind., writes (Sept. 12, 1913), as follows: "The White Onion seed that I bought of you this Spring was certainly fine and the buyers say that they never saw finer onions as to color and shape. I shall be in the market for a larger order this Fall."



Wonderful

Défiance Summer

Philadelphia Butter

Iceberg

Hanson

Musk Melons or Cantaloupes

Melon Almiraleno o Cantalu Zucker Melonen

A rich, sandy soil and good seed are absolutely necessary for success in raising the best Musk Melons. The seed should not be planted until the ground has become dry and warm; plant in hills 6 feet apart each way; old, well-rotted manure should be thoroughly mixed with the soil in each hill and in liberal quantity. Put six to ten seeds in the hill, and, when danger from insects is past, leave three or four of the strongest plants only. Musk or Cantaloupe Melons may also be sown in rows, that are made about 6 feet apart, and when the plants are well up thinned to stand in hills 5 to 6 feet apart, just before the plants begin to run. This method insures a good stand of plants in spite of the bugs. If the plants grow very rank, the tips of the leading shoots should be pinched off when about 3 feet long. Cultivate often and not deep. **One ounce of seed will plant 60 hills; 2 to 3 pounds will sow an acre.**



Yellow-Fleshed Melons

The Davis Grand

"The Grand" is 10 to 14 days earlier than the Osage, under the same conditions. It is salmon-fleshed, and is of remarkably uniform size, and color and flavor of flesh are very fine. It sets fruits near the roots, has a more vigorous vine and therefore resists disease better than most sorts. Fruits average about 6 inches in diameter. **Extra choice seeds, saved by the originator especially for us. Pkt., 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.**

Livingston's Tip-Top

(Introduced by Us in 1892)

**Tip-Top in Quality — Tip-Top in Appearance
Tip-Top in Productiveness**

This splendid melon has "held its own" for many years against all introductions in the melon line, and no yellow-fleshed melon of which we have any knowledge compares with it in good qualities. The testimony of all who have used **Tip Top** is that every melon produced, whether big or little, early or late, is a good one—sweet, juicy, finest flavor, firm (but not hard) fleshed, and eatable to the outside coating. Its appearance on the market is very attractive—sells on sight. Customers soon learn to pick them out and will have no other variety. Fruit of large size, and flesh attractive bright salmon in color; nearly round, evenly ribbed, moderately netted, very productive. (See illustration.)

PRICE—(Under our True Blue Seal), Superior Stock—Pkt., 10c.; oz., 20c.; ¼ lb., 40c.; lb., \$1.50.

Emerald Gem

Ripens early; medium size; nearly round; flesh a delicate light salmon color, very thick, fine grained, and very few melons can compare with it in superb flavor. The rind is thin, dark green, ribbed, slightly netted. One of the best for home use. **Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.50.**

Banana

Very odd; 18 to 21 inches long. Yellow flesh, blending from bright green to rich salmon. Fragrant, and one of the most delicious of melons. Early. **Pkt., 10c.; oz., 20c.; ¼ lb., 60c.**

Burrell Gem

A superior new orange-fleshed shipping melon. Of splendid flavor, sweet and aromatic; oblong in shape, smoothly rounded ends, closely netted and slightly ribbed, dark green skin. The rind is thin, but very tough; flesh exceptionally deep rich salmon-orange color. Fruits average 6 inches long by 4 inches deep. Very fine for marketing. **Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.**

Hoodoo

The vine is quite vigorous, resisting blight better than most other sorts, and is very productive. The fruits vary slightly in shape, averaging nearly round, quite like the **Netted Gem**. The netting is distinctive in being exceptionally dense and fine, and it extends over practically the entire surface. The rind, although thin, is so very firm that the melons arrive in distant markets in perfect condition. Flesh very thick, highly colored, of finest texture and delicious flavor. **Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.**

Osage, or Miller's Cream

A favorite salmon-fleshed variety. Large, oval, slightly ribbed and netted; skin is very dark green. Flesh is very thick and sweet flavored, most delicious to the rind. The whole crop is very even and fruit extra heavy, owing to this thickness of the flesh. A great favorite for both market purposes, and the home garden especially. **Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.**

Paul Rose (Petoskey)

In the Paul Rose we have a successful cross of the Osage with the **Netted Gem**, which combines the sweetness of the one with the fine netting of the other. In fact, a large size **Netted Gem** with deep orange flesh. A great producer; as early as the **Netted Gem**. Especially adapted to shipping in baskets. The Paul Rose originated with an extensive grower of Northern Michigan, where the climate seems particularly adapted to the production of high-quality melons. **Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.**

Dr. F. I. Proctor, Suffolk Co., Mass., writes as follows: "Two years ago I had remarkable success with your Melon seed, and this year a number of my friends to whom I recommended it have had equally good results."

Ask for copies of **Tomato Facts, Onion Bocket, and Seed Specialties.**

G. C. Borcharding, Jackson Co., Ind., writes (9-9-13): "I have a very fine lot of Tip Top Melons—10 acres as good as ever was grown."

H. E. Howell, Nephi, Utah, writes (9-15-13): "I have used your Broad Grained Corn for the past four (4) years and it is the best I have ever grown."



Livingston's Ohio Sugar

Green-Fleshed Musk Melons

Livingston's Ohio Sugar

For a number of years we have had many inquiries from our gardening friends for a **green-fleshed melon** with the uniformly good qualities of **Livingston's Tip Top** (the best yellow-fleshed melon ever sent out). There are plenty of green-fleshed melons on the market, but only a small per cent. will run sweet and good. So we set to work some years ago and succeeded in producing **Ohio Sugar**, which has caused considerable comment. It has every desirable quality of the **Tip Top**, but with a green flesh. Many who have tested it pronounce it even sweeter than the **Tip Top**. **Livingston's Ohio Sugar** is the result of careful hybridizing and painstaking selection and breeding. We believe it to be absolutely the sweetest and most luscious green-fleshed Cantaloupe now on the market. It is of that desirable size in demand in all markets; round, inclined to oval in shape, heavy in proportion to size because the flesh is so deep. Distinctly ribbed and thickly netted; color of skin grey-green. Seed cavity small. **The flesh is an attractive green, sugary, juicy, tender and entirely free from any stringiness. It has a delightfully rich aromatic flavor.** Pkt., 10c.; ½ oz., 15c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.75.

Livingston's Rose Gem

A Fine Green-Fleshed Shipping Musk Melon Named and Introduced by Us in 1896

In shape it is more oval than the original strain, which gives it additional strength to stand long-distance shipping. One of the best and most profitable extra-early melons in existence for market gardeners and shippers, being especially adapted to basket-shipping. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Burpee's Netted Gem

This very early Cantaloupe melon is one of the most delicious in the whole list. Small and round in shape. Firm, green flesh. Sweet and luscious clear to the rind. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Livingston's Market

Has beautiful, close netting; a most vigorous grower; very hardy, withstands drought, blight and bugs remarkably well. Very prolific, uniform in size and has a long fruiting season. Green fleshed; of splendid flavor. Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

"Rocky Ford"

An improved Netted Gem Melon with sweet, green flesh. In the hands of the Rocky Ford (Colorado) growers it has made that state famous in Eastern markets for melons of unequalled quality. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Extra Early Hackensack

Produces melons two weeks earlier than the well-known Hackensack; heavily netted, and has light green flesh of most delicious flavor; a splendid Cantaloupe melon. Its shape and solidity admit of its being packed very closely in crates for shipment, and it will keep in good condition for several days after picking. Large, fine form; grown also for the home garden very extensively. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Acme, or Baltimore Nutmeg

Has a beautiful, heavily netted, green skin; good size; shape is oval, slightly ribbed; flesh thick, green, very finely flavored, smooth. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 85c.

Long Island Beauty

A splendid variety, on the style of the Extra-Early Hackensack, but slightly more ribbed. It is of very superior quality, with green flesh. Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

Extra-Early Green Citron

The largest of the very early nutmeg melons. Form nearly round; fairly netted; flesh green; quality very fine. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

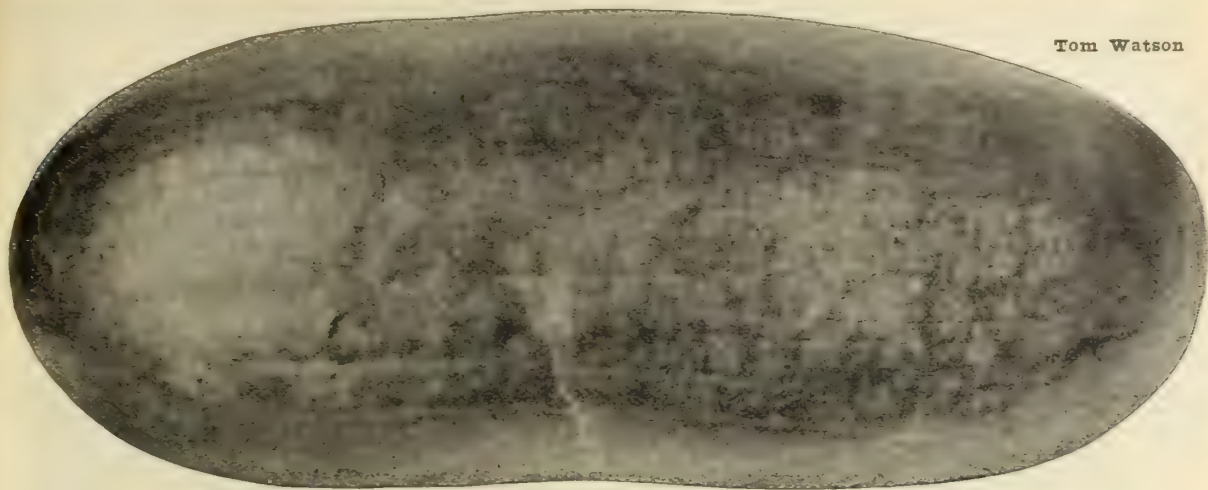
Some Other Good Musk Melons

We can always supply the following varieties at the uniform price of: Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25 (except where otherwise noted): **Perfection, Surprise, Hackensack, Early Green Nutmeg, Jenny Lind, Montreal Market, and Champion Market.**

Special Melon Offer

Three of Livingston's Introductions—Tip Top, Rose Gem, and Livingston's Market—One regular packet of each, 15 cents, postpaid.

John Mass, Spokane Co., Wash., writes (10-17-12), as follows: "I am glad to let you know that at the Interstate Fair at Spokane, Wash., I received the first prize on the Snowwhite Celery. This variety sold for higher price than any other celery in Spokane. I was getting 75c. a dozen, while others were getting 50c. and 60c. The weight of Snowwhite on my place was from 18 to 24 lbs. a dozen stalks; length 2½ feet."



Tom Watson

Sandias **Water Melons** Wassermelonen

Special Prices to Large Growers Who Mention Quantities Required

A light, sandy soil, with good exposure to the sun, is the best situation to plant Water Melons. The ground should be prepared deep, but receive shallow cultivation. Hoe often and very thoroughly. If extra-large Water Melons are desired, for exhibition purposes, leave but one or two on a single vine. Plant in hills 8 to 10 feet apart each way, with a very generous shovelful of well-rotted manure mixed with the soil in each hill. If commercial fertilizer is used, it should contain a large percentage of ammonia and potash. Plant eight or ten seeds in each hill, and finally, when danger from insects is past, thin out to three strong plants. **Owing to the large size of Water-Melon seeds, the ounce size packets are about right for small gardens. One ounce of seed will plant 20 to 30 hills; four or five pounds will plant an acre.**

Tom Watson

An extra long melon of attractive appearance, uniform in shape and quality. The luscious crimson flesh is "as sweet as honey," melting, and of superb flavor. The average melon will weigh 35 to 40 pounds and measure about 28 inches long and about 12 inches in diameter. It is very prolific, producing in greatest abundance the large delicious fruits. (See illustration of specimen fruit.) We have great faith in the **Tom Watson** and believe it is one of the very best Water Melons ever offered. Introduced only a few years ago and has already taken a leading place with large melon growers and shippers. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

Livingston's Nabob

Named and Introduced by Us in 1895

The Best for Home, Market and Shipping. Deep Red Flesh. Crisp, Sparkling, Deliciously Sweet—A melon for all sections; equally valuable for Northern or Southern States. Vines hardy, vigorous, healthy and productive; fruit large and heavy (weighing 30 to 60 lbs.), resembling the Kolb Gem in shape, but differing in color, being peculiarly mottled, rather than striped. (See illustration.) Rind thin and very firm; fruit keeps a long time, and is not excelled in shipping qualities; seeds dark buff or dun color; flesh the deepest scarlet, firm, solid and of richest flavor. Does equally well on different soils, in various climates and under unfavorable as well as favorable conditions. Every one praises its many splendid qualities. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

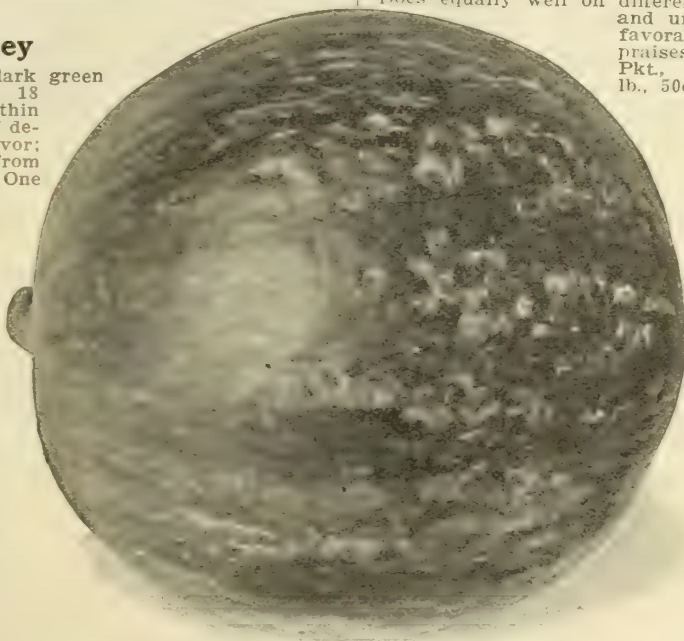
Halbert Honey

A very sweet, long, dark green variety. Fruits average 13 to 20 inches long, have a thin rind and deep red meat of delightfully delicious flavor; pulp entirely free from stringiness; seeds white. One of the finest for the home garden. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Florida Favorite

A splendid oblong melon; ten days earlier than Kolb's Gem. Skin dark green, slightly mottled with still deeper shade; flesh dark red and of the finest flavor and quality. We have a splendid stock of this melon to offer, at an exceedingly low price. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

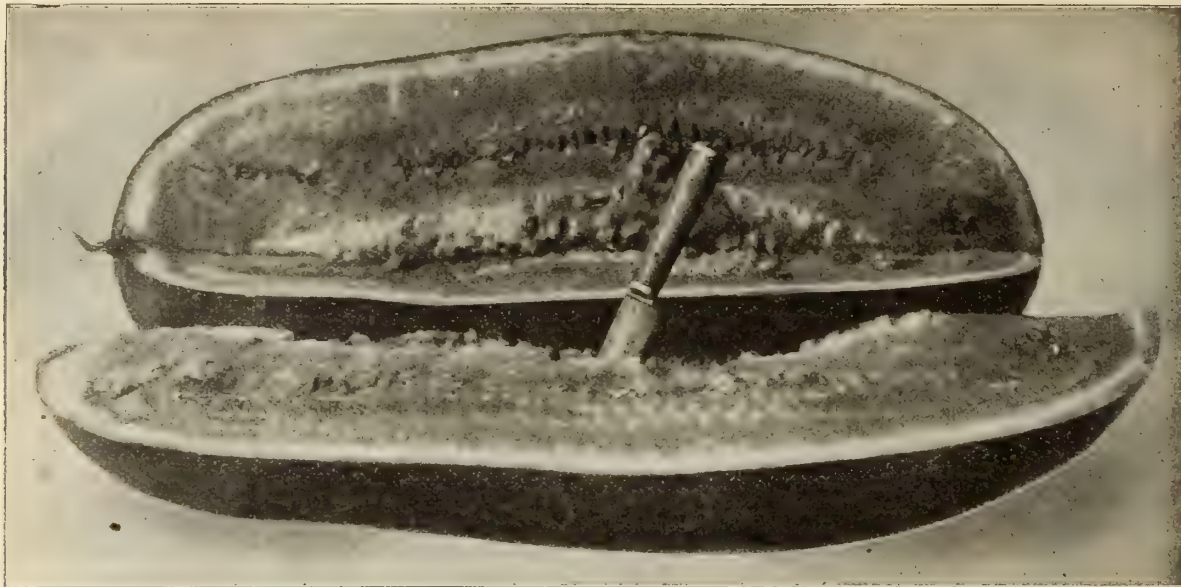
W. H. Fowler, Dodge Co., Neb., writes (9-19-13): "I exhibited one of your 'Globe Tomato vines at recent fair here last week, which had 55 tomatoes on it—two main stems only. It was awarded first prize."



Kleckley Sweets

This splendid Water Melon has certainly become very popular wherever it has been thoroughly tested. It is of superb, luscious flavor. While the skin is perhaps too thin to admit of the melons being shipped very great distances to market, it is most desirable to plant for home use or local markets. The melons themselves are very large, oblong in form, with dark green skin, thin rind, which is very brittle. Flesh is bright scarlet, with solid heart, deliciously crisp, sugary and splendid in every way. The melons average from 18 to 20 inches in length by 10 to 12 inches in diameter; of handsome appearance; ripens early, and is most desirable for the home garden. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Livingston's Nabob



Ice Cream

Special Prices to Large Users Who Mention Quantities Required

Alabama Sweets

Large, dark green melons of oblong shape and fine quality; skin faintly netted with lighter green stripes. Flesh bright red, of delicious flavor. A good shipper. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

Ice Cream

This old stand-by has too thin a rind for shipping unless packed in straw. We have sold it for many years to our extensive Scioto Valley Water Melon growers, because it has become such a great favorite with Columbus (O.) Water Melon dealers, and consumers as well. Few varieties, if any, surpass a **True Ice-Cream Water Melon** for quality and productiveness. Of good size, medium early, fruit oblong; rind light mottled green; flesh bright scarlet and solid to the center, melting, delicious. Absolutely free from hard core or stringiness. An elegant sort. Seeds white. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

Blue Gem (Iceberg)

One of the most popular market and shipping varieties. Grown very extensively in the South for Northern markets, and is to-day the favorite variety with the Water Melon growers of New Jersey, who supply the Philadelphia and New York markets; it keeps well and seldom cracks or splits in transit. Its flesh is a beautiful shade of dark red. Deliciously sweet. Heart large, and the edible flesh extends very close to the dark outer rind. Melons very uniform in size and shape. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 15c.; lb., 40c.

Peerless

One of the best for home gardens and market gardeners, who deliver direct to customers. Medium size; flesh red, tender and delicious. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 55c.

Georgia Rattlesnake, or Striped Gypsy—Very large, long, smooth and distinctly striped; flesh bright scarlet, very crisp and sweet. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

Girardeau's Triumph—Large size and handsome appearance. Skin bluish-green, flesh dark red, of good quality. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 40c.

Cuban Queen—A large variety weighing 80 pounds and upwards; striped light and dark green; an enormous cropper. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

Sweetheart

Very popular. One of the best. This fine variety is an entirely distinct and handsome Water Melon. Vine vigorous and productive, ripening early. Fruit large, oval, very heavy, uniformly marked with light and dark green lines. Flesh bright red, solid and very tender, melting and deliciously sweet. The melons retain their good qualities for a long time after ripening and being gathered. (See illustration below.) Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 15c.; lb., 40c.

Cole's Early

Very hardy; a sure cropper for Northern states. Delicate in texture of flesh, which is dark red; rind green, striped with lighter shades, thin and very brittle; of medium size, and nearly round; matures early; especially good for home use. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

Preserving Citron

Red seeded; most desirable for preserves; flesh solid and white. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 85c.

Duke Jones (Jones' Jumbo)—Color of the skin is a solid dark green; flesh very bright red, particularly sweet, juicy and melting. It grows to a large size. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 15c.; lb., 40c.

Fordhood Early—The earliest and best melon of good size. Next to Cole's Early in time of ripening, but much larger. Fruit round; outer color, medium green; flesh is bright red, of fine quality. Good shipper. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

FROM ONE OF OUR CUSTOMERS

Chas. B. Comstock, Kane Co., Ill., writes (9-27-13): "The main crop of tomatoes in my garden this season has been Livingston's Stone and Livingston's Golden Queen and they have been a show that my neighbors have lauded and envied, all trained up on 5-foot stakes, with a screw-eye in the top of each stake, then laced on a galvanized wire cable, with such support at the top the stakes had only to have 6 inches driven in the ground, set 30 inches apart, they form a solid wall of vine with fruit in the greatest profusion. I had 2 such rows, 15 plants in each row. We are now having light frosts and the plants are very easily covered with the wire cable running over them."



Sweetheart

Special Prices to Large Users Who Mention Quantities Required

Grey Monarch

Very large; oblong in shape; crimson, sweet flesh. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

Kolb's Gem

Probably the most extensively grown for long distance shipping of any Watermelon ever originated. The flesh is bright red and of good flavor. Melons large, of very thick, oval blocky form; skin handsomely marked in stripes of light and dark green. One of the most productive and best keeping melons. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

Harris' Earliest—Large, oval sort with mottled skin. Sweet, tender flesh. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

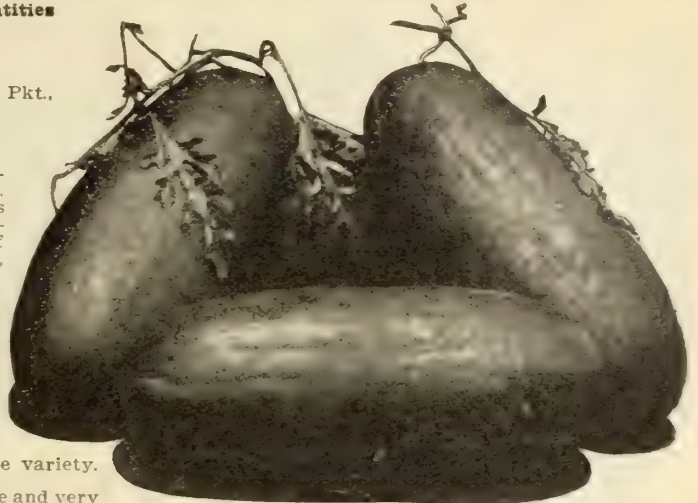
Improved Dixie—Fruit beautifully striped; surpassed by few for shipping or table; long keeper; flesh very red, sweet and juicy. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

McIver Wonderful Sugar—Large, oblong and handsome; skin shows broad bands of light green, with narrower ones of dark green. Its rose-colored flesh is crisp, very sweet and solid to the center. A choice variety. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Phinney's Early—One of the first to ripen, of good size and very productive; oblong; rind a distinct mottled color; flesh deep red; quality excellent. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Pride of Georgia—A dark green, oval variety; very fine, large, second-early sort; a good shipper and keeper. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Round Dark Icing—One of the sweetest of all Water Melons. Very solid; thin rind; rich red flesh. Quite early and noted for its splendid quality. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 55c.



Grey Monarch

Seminole—One of the best large, long Water Melons. Early, enormously productive and of most delicious flavor. Of two distinct colors—gray and light green. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Light Icing, Mountain Sweet, Johnson's Dixie—We can supply the above at the uniform price of—Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

Seta Livingston's Sure-Crop Mushroom Spawn Champignonbrut

Mushrooms will usually do well almost anywhere if a fairly uniform temperature can be maintained. One pound of Spawn is sufficient for a bed 2x6 feet. We receive fresh Spawn several times a year from the best makers. A careful study of one of the books below will help you to be successful.



English Milltrack Spawn (Livingston's Sure Crop)—Postpaid, per brick, 30c.; 5 for \$1.25. By express, at buyer's expense Lb., 15c.; 5 lbs., 65c.; 10 lbs., \$1.10; 25 lbs., \$2.50; 50 lbs., \$4.50.

American, Pure Culture Spawn—Produced by the new grafting process from selected and most prolific varieties; has never failed to run. Per brick, 35c.; 5 for \$1.50, by mail, postpaid. By express, at buyers' expense—Per brick, 25c.; 5 bricks, \$1.00; 10 bricks, \$1.85.

Mushrooms: How to Grow Them. Falconer. 168 pages. Cloth, price \$1.00.

How to Grow Mushrooms—A booklet of 14 pages with full and complete instructions to grow Mushrooms successfully, will be mailed on receipt of 10c., or free with an order for 5 bricks.

Okra, or Gumbo

Very wholesome. The pods, when young, make a fine soup. Plant seed after the ground is warm and dry in drills 3 feet apart, thinning the young plants to 1 foot apart. Make early and late sowings to secure a supply throughout the season. Easy to grow in any good garden soil. One ounce of seed will sow 40 feet of drill.

White Velvet

Distinct in appearance; the large pods are perfectly round, smooth, an attractive velvety white, of superior flavor and tenderness. Plant dwarf, of compact, branching growth; very prolific. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 55c.

Perkins' Mammoth

Plant dwarf; are very productive. Produces beautiful, long, slender, deep green pods, which remain tender a long time. An extra choice variety. (See illustration alongside.) Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 55c.

Kleckley's Favorite

Plants are of compact growth, with many close joints. At each leaf joint develop handsome, smooth, white pods which average 6 inches long, by 1 inch in diameter. They are exceptionally fleshy and tender. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.



Perkins' Mammoth Okra

Mostaza Mustard senf

Used as a condiment; the green leaves are used as a salad, or cut and boiled like Spinach. Cultivate same as Curled Cress or Pepper-Grass. One ounce of seed will sow 50 feet of drill.

"Fordhook Fancy"

The plants, of vigorous growth, have beautiful dark-green leaves. It is most productive from early Spring sowings, and stands well, even during the hot Summer months. By making several sowings a few weeks apart, a continuous growth of fresh tender leaves may be had throughout the season. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Southern Giant Curled—Is highly esteemed in the South, where the seed is sown in the Fall and plants used early in Spring as a salad. Seeds brown. Plants are 2 feet high; enormous bunches. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Chinese—A giant curled variety with leaves double the size of the ordinary. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 65c.

White English—Leaves are light green, mild and tender when young; seed light yellow in color. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

Brown or Black Mustard—More pungent in flavor than the White. Seed black. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.



Onions are One of Our Specialties

Cebollas

Choice Onion Seed

Zwiebeln

Culture

Onion seed should be sown as soon as possible in the Spring, even if the weather is cold, just so the soil works up well. This gives the onions a good start and ahead of weeds and before dry weather sets in. **After thoroughly pulverizing the soil, sow thinly 4 to 5 lbs. to the acre, in drills 1 foot apart and about ¼ inch deep.** When well started, say 4 inches high, thin out to stand 3 to 4 inches apart in the rows, keeping them well hoed and free from weeds. Onions delight in rich, deep, sandy loam and succeed well if grown for a succession of years on the same ground. Deep plowing prevents blight. **For heavy crops finest shaped and high colored bulbs,** especially Ohio and other Yellow Globes, large quantities of well-rotted manure must be used—15 to 20 cords per acre would be none too much. If this is not to be had, use high-grade commercial fertilizer, with large percentage of potash. Onions keep best when ashes are used as fertilizer. When harvesting,

protect the bulbs from rain or dew while in the open air or they will be discolored. On application we will send booklet giving more complete cultural directions for growing onions, both by the ordinary method as well as by the **New Transplanting Method, FREE to customers; 10c. to others.** All onion growers should have it.

About Quality in Onion Seed

It is many times better to plant no onions at all than to sow the absolutely worthless stuff sold in so many cases and called Onion seed—and which often is purchased because it was low in price. **Strictly First Quality Onion Seed can never be low in price.** It costs a certain amount to select, sort, keep the bulbs over Winter, and again the next season raise the crop of seed; and the nearer to perfection in every respect the seed is brought, the more it costs.

We Would Like to Sell You Your Onion Seed, as we honestly believe our various varieties are right. But wherever and from whomsoever you supply your needs, buy seed of known reliability and established standard quality.

Mrs. Chas. Blackburn,
Kosciusko County, Ind.,
writes (Dec. 6, 1912):

"I must tell you that I had very good success with your seeds, especially your Extra Select Ohio Yellow Globe Onion. We grew for market this year and your Extra Select was a good ways ahead of all others. We expect to grow about six (6) acres the coming year, so please send catalogue."

Livingston's
Ohio Yellow
Globe

Livingston's Extra-Selected Ohio Yellow Globe

Distinct and attractive shape; handsome, bright, even color; ripens early and all at once; necks very small, and cure down to almost nothing. The firm, solid bulbs are excellent Winter keepers, and all that can be desired in size and quality. Pkt., 5c.; oz., 25c.; ¼ lb., 70c.; lb., \$2.25.

Select Danvers Yellow Globe

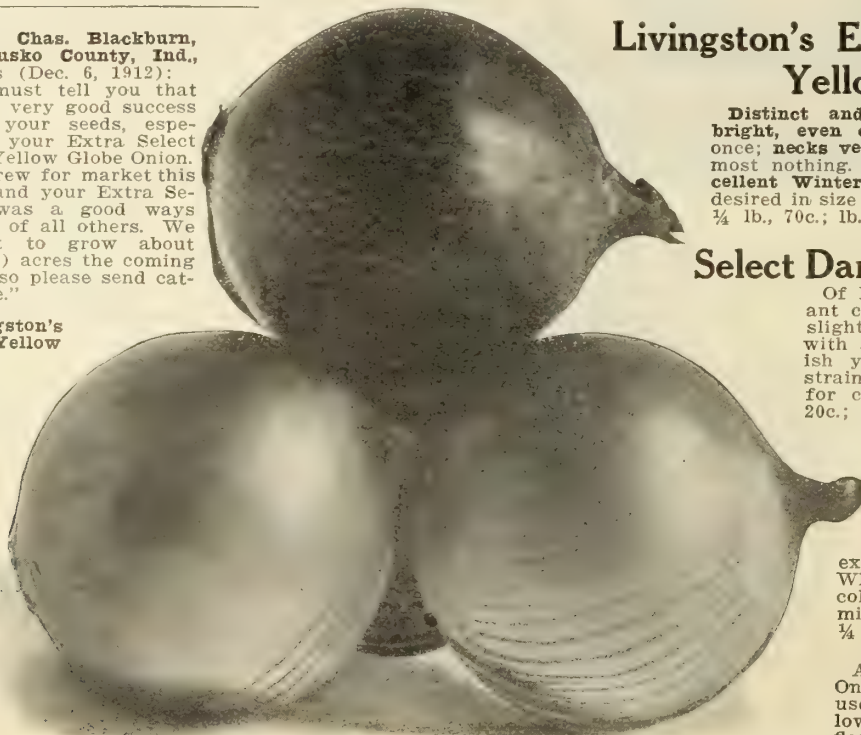
Of large size, an early and abundant cropper, very thick bulb, flat or slightly convex bottom, full oval top with a small neck and rich brownish yellow skin. We consider our strain of Globe Danvers just right for critical growers. Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.75.

Southport Yellow Globe

A fine large Yellow Onion, globe-shape, of uniform size, handsome form and the same excellent qualities as the Southport White Globe. Of delicate straw color, attractive appearance and mild flavor. Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.75.

Yellow Flat Danvers

A splendidly extra-early yellow Onion for either market or home use. Flatter than the Select Yellow Globe Danvers; long keeper; flesh white, fine quality. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.



Mammoth Yellow Prize-Taker

This is the large, beautiful Spanish variety so often seen in the fruit stores and markets of all large cities. Enormous size—14 to 16 inches in circumference. Although of such great size, it is hardy and a good keeper, as it ripens up hard and firm; very fine grained, and of mild, delicate flavor. The outside skin is rich yellow, while the flesh is white. Has produced more bushels of marketable Onions to the acre than any other variety. Our stock is True American grown seed. Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.75.

Mammoth Prize-Taker
Onion. Packet, 5c.



Gigantic Gibraltar

A Splendid Onion of the Prize-Taker Type, for the South

Grown alongside of Prizetaker, this excellent type is especially noticeable on account of its bluish green, glossy foliage which resists insect attacks to a remarkable extent, and withstands dry weather better than any other sort. Ripened bulbs greatly resemble Prizetakers in size and shape, but the skin is, perhaps, a little more of a straw yellow. It grows longer than Prizetaker and, on that account, in warm localities, the bulbs become larger in size than Prizetakers. Worthy of a careful trial. Pkt., 15c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.00.

Livingston's Yellow Beauty Onion

(See Illustration on Back Page of Cover)

Very similar except in color to our very popular Brown Beauty Onion, so well known among some of our best gardeners as one of the best for growing small round hard shiny sets or medium-sized Onions from the black seed in one season, and that beats any other sort for keeping up into the Spring (often until June).

Livingston's Yellow Beauty is a bright lemon yellow sort of very fine and firm texture especially adapted to growing sets and onions for late-Spring sales. Pkt., 10c.; ½ oz., 15c.; oz., 25c.

Livingston's Brown Beauty

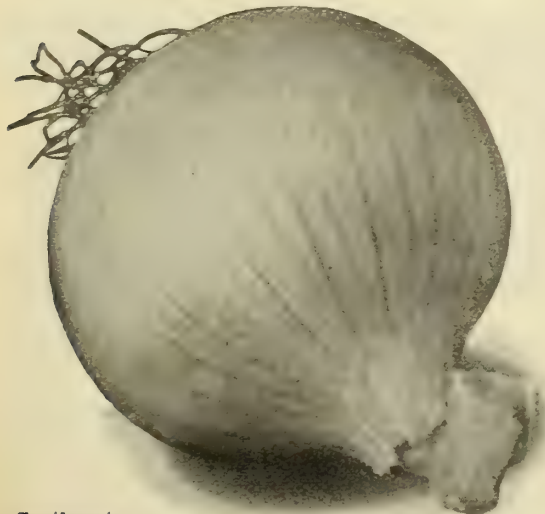
Grows the Hardest, Smoothest, Roundest, Best Keeping Onion Sets of any Onion on the Market. This splendid Onion was introduced by us in 1900. For nearly 40 years it has been the market gardener's favorite in the Columbus market. Our strain is of our own growing and is the result of years of expert selection and careful cultivation. For Winter and Spring sales or for home use it is hard to beat. Keeps in good shape until late Spring. Ripens early. Fine for onion set growing. Pkt., 5c.; oz., 20c.; ¼ lb., 30c.; lb., \$1.00.

Australian Brown

This variety has become very popular, because of its good keeping qualities. The bulb is medium sized, nearly spherical, being slightly flattened; reddish brown in color and very hard and solid; rather strong flavored. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Yellow Dutch, or Strasburg

One of the most popular varieties for yellow onion sets. Ohio grown seed. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.50.



Southport
White Globe

Southport White Globe

(See illustration.) The handsomest Onion grown. Of beautiful silvery-white color, perfectly globe-shaped, uniform in size, averaging 2½ inches in diameter. Flesh firm, fine-grained and of mild, pleasant flavor.

Southport White Globe as grown in the rich, black muck soil of our Kirkersville farm comes as beautiful and true to type as we have ever seen it in our thirty years of observation. Most of the bulbs are 3 inches in diameter, of true globe type, solid and with very small neck. Pkt., 10c.; oz., 35c.; ¼ lb., \$1.00; lb., \$3.50.

Indiana Silver Skin

This is a strain of pure white Onion that produces round, hard Onion sets, for which we highly recommend it to you. The bulbs, when fully matured, are flat. Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.75.

White Portugal, or Silver Skin

Matures very early; rather flat in shape; mild flavor; excellent for Winter; very much esteemed for pickling when small. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

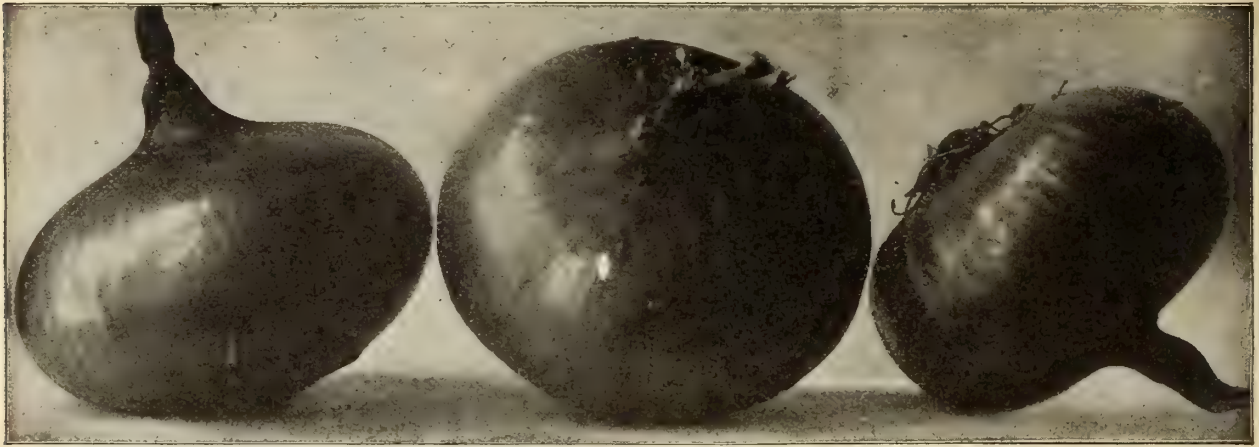
Philadelphia White Silver Skin

A good-sized white variety when full grown, and makes a most beautiful, firm, round, pearly white Onion set, for which it is very extensively grown the country over. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

"Profitable Onions"

Is the title of our Onion Booklet. It tells all about the old and new method of growing large onions from seeds, describes the finest strains of American onions procurable and shows how we produce them. Ohio-grown Onion Seed is the finest that can be grown. Rich soil, ideal climate, constant selection and careful methods in seed production give our onion strains the characteristics not found in the common article. Whether you raise onions for profit or for home use, you should plant Livingston's Ohio-grown Onion Seeds for best results with this crop. Read "Profitable Onions" and learn some of "the reasons why." Free to all onion growers.





Large Red Wethersfield

Large Red Wethersfield

This is a standard red variety. Large size; skin deep purplish-red; form round, somewhat flattened; flesh purplish-white. One of the best keepers. Yields enormous crops. Our stock is grown on the upland of our Kirkersville farm and cannot be surpassed. Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.75.

Southport Red Globe

The handsomest of all the red Onions; large, solid and of perfect shape. Red Globe is the latest of the Southport Onions, ripening from a week to ten days after the yellows. The bulbs are remarkably uniform in shape, of a rich red color, ripen evenly and yield the largest percentage of marketable Onions. They ripen down hard and solid, keep well, and their beautiful appearance insures a ready market. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

Extra-Early Red

Medium size, very uniform in shape; smaller than Large Red Wethersfield, but two weeks earlier; an abundant producer; good keeper; desirable for early market. Pkt., 5c.; oz., 20c.; ¼ lb., 40c.; lb., \$1.25.

Southport
Large Red
Globe

Foreign Varieties of Onions

Extra-Early White Barletta Onion—The very earliest Onion in cultivation. One of the best for pickling, being naturally quite small. Pure white, mild and delicate; adapted for table use; makes an extremely pretty bunch Onion. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

Hard Round White Silver Skin—For pickling only. Small, round, handsome; an opaque white skin; very hard and crisp. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

Very Early Rose Colored—Bulbs small; flat; nearly as early as the Queen, but of larger size, with rose colored, sometimes almost red skin; neck very small. Earliest of the colored Onions. Pkt., 10c.; oz., 20c.; ¼ lb., \$1.00; lb., \$3.00.

Mammoth Silver King—Of attractive shape, with silver-white skin and flesh of most agreeable, mild flavor. It matures quite early, coming in just after the Onions grown from sets are gone. Matures to a larger size than other flat varieties. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

Earliest White Queen—A very early pure white, small, flat Onion, 1 or 2 inches in diameter; when sown early in the Spring will ripen in July. Very mild flavored. Fine for pickling. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

Neapolitan Maggiajola (Italian May Onion)—A large, flat, beautiful silver-white skinned variety; one of the earliest of all and of very mild flavor. A large and handsome sort. Sells very readily, especially in the South. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.50.

Livingston's Choice Onion Sets

Early green Onions are obtained much earlier by setting out sets than by sowing seed. Some of the latter, however, should be sown to follow the crop grown from the Onion Sets. Plant both Onion Sets and seed as soon as the ground is warm and dry in the Spring.

Our Set Prices

Our prices are based on the present market rates and are subject to market changes. It is impossible for us to make fixed prices. Lowest market prices on large or small quantities will be given on application at any time. We handle Onion Sets in large quantities. At bushel, peck and half-peck prices the buyer pays the express or freight charges; at pint and quart prices we pay the postage and send the sets by mail. Order Onion Sets early.

Standard Onion Sets (Bottom Sets)

are grown from seed sown very thick in broad, shallow furrows, and covered about half an inch deep. These are the little Onion Sets so much planted for first Onions. One bushel weighs 32 pounds.

Postpaid By Express, not prepaid

White Onion Sets...Pt., 15c.; qt., 30c.; ½ pk., 50c.; pk., 90c.; bu., \$3.25
Red Onion Sets.....Pt., 15c.; qt., 30c.; ½ pk., 50c.; pk., 80c.; bu., \$3.00
Yellow Onion Sets...Pt., 15c.; qt., 30c.; ½ pk., 50c.; pk., 80c.; bu., \$3.00

White Multipliers

Pure silvery-white, enormously productive, frequently 20 bulbs in a cluster from a single bulb. Of excellent quality and size for bunching green, or can be ripened for pickling Onions. Remarkably good keeper; very early. Pt., 20c.; qt., 35c., postpaid. By express, ½ pk., 75c.; pk., \$1.25; bu., \$4.75 (measured).

Top Sets, or Buttons ("Toppys")—These produce the small clusters on top of the stem, where seed is produced with bottom Onions. These clusters are separated and planted in the Spring, the result being large Onions, and these large ones with one year's growth, produce the clusters on top again. Pt., 15c.; qt., 30c., postpaid. By express, ½ pk., 60c.; pk., \$1.00; bu. (28 lbs.), \$4.00.

Egyptian Winter, or Perennial Tree Onions are sold only in the Fall. See Fall Catalog regarding this variety, as Autumn is the time to set them out.

Perejil **Parsley** Petersilie

Parsley is used for seasoning soups and stews, for salads, and is also very universally used for garnishing; also for ornamental borders in the flower garden; succeeds best in a rich, mellow soil. As the seeds germinate very slowly, three or four weeks sometimes elapse before it makes its appearance. It should be sown early in the Spring. One ounce of seed will sow about 150 feet of drill.

Livingston's Exquisite

One of the main features in any variety of Parsley is the ornamental effect of its leaf when used for garnishing. This is a very strong point in our Livingston's Exquisite, with its very elegant and closely curled leaves of beautiful dark green, while the flavor is all that could be desired. As a pot plant for Winter decoration it is simply "exquisite." **The finest strain of Curled Parsley that has ever come under our notice.** Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.50.

Fine Double Curled

Dwarf, beautifully curled; very fine variety. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 85c.

Champion Moss Curled

More densely crimped and curled than some other sorts. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 85c.

Plain

Much used for soups and stews; rather stronger in flavor than other varieties. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

Hamburg, or Turnip-Rooted

A rooted variety; the fleshy roots resemble Parsnips, and are used in soups and stews. Pkt., 5c.; oz., 20c.; ¼ lb., 40c.; lb., \$1.25.



Parsley—Livingston's Exquisite

G. W. Miller, Columbia Co., Pa., writes (2-20-13): "I have raised and marketed your Livingston's Hummer Tomato and find it the best I have ever grown. Customers say that they get a larger number of jars canned from a basket of Hummer than any other tomato."

Jos. Turman, Woodbury Co., Ia., writes (1-8-13): "I ordered of you for the first time last year. Your seeds gave satisfaction, especially the tomatoes. I had in about an acre of tomatoes grown from your seeds and the people that bought of me always wanted some more of those fine tomatoes."

John G. Deishlir, Hocking Co., O., writes (4-29-13): "The Peas I bought of you are doing splendidly; think nearly every seed came up. Did not have quite enough so bought a quart of a local dealer and not one-tenth came up—hereafter it is Livingston's for me."

Chirivia **Parsnips** Pastinake

Sow as early in the Spring as the weather will permit, in drills 15 inches apart and half an inch deep, in rich, well-manured ground, well dug. Cultivate similar to Carrots, and thin to 6 inches apart in the rows. The roots improve by being left in the ground until Spring, securing enough in pits or the cellar for Winter use. One ounce of seed to 200 feet of drill, 5 or 6 pounds for an acre.

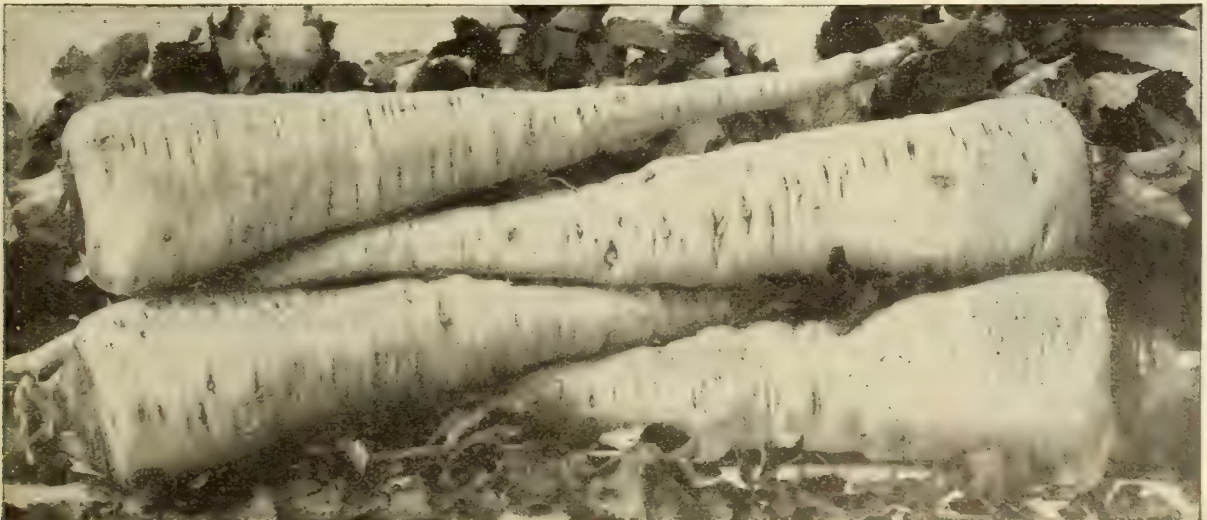
Large Sugar, or Hollow Crown

(Improved Guernsey)

White, smooth, sugary, excellent flavor, easily harvested. (See illustration.) Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Long White Dutch

Roots are very long and smooth; one of the best varieties for general use. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.



Chicaros
o Guisantes

Livingston's Choice Peas Erbsen

Peas mature early, when in a light, rich soil. For the general crop, a rich, deep loam, or clay, would be best. Peas thrive better if the ground has been manured for a previous crop, but if the ground is poor and requires enriching, use well-rotted manure; and for the dwarf varieties you can hardly make the soil too rich. When grown as a market crop, Peas are seldom staked or bushed, but are sown in single rows 3 to 4 inches deep, the depth depending on the time of sowing, nature of the soil, as well as the variety. Wrinkled varieties are not as hardy as the smooth sorts, and if planted early should have dry, warm soil, and not planted deep, or they are liable to rot in the ground. These wrinkled varieties are, however, the sweetest and best flavored. Rows for planting should be from 2½ to 3½ feet apart, according to the kind, soil and manner of culture desired. When grown in the kitchen garden, it is best to sow the seed in double rows, 6 to 8 inches apart, the tall sorts requiring brush. Commence sowing early varieties as soon as the ground can be worked in the Spring, and continue, for a succession, every two weeks up to end of June, discontinuing until the middle of July, when a good crop can sometimes be secured by sowing an extra-early sort. One quart sows 100 feet of row; 1½ bushels for an acre.

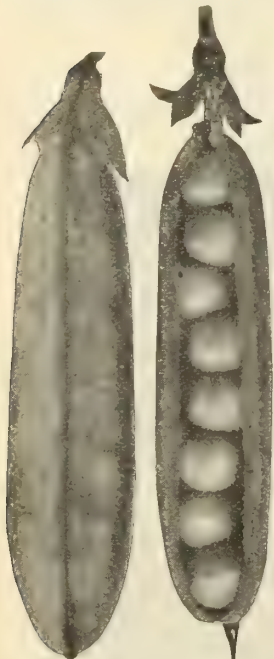
PLEASE READ

Packets of Peas or Beans are heavy, and packets put up by some seedsmen to sell at five cents, postpaid, contain too small a quantity for any family. We therefore supply liberal sized packets at Ten Cents, postpaid. We prefer to please our customers rather than disappoint them.

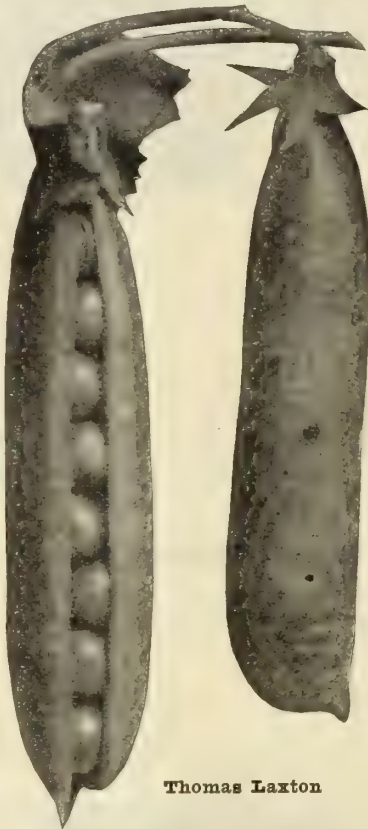
We pay the postage at prices quoted on quarts, pints and packets. If to go by express or freight, at buyer's expense, 15c. from quart or 8c. from the pint prices may be deducted. On larger quantities the prices do not include freight or express charges.

Livingston's Prolific Early Market

For length of pod, number of Peas in a pod and number of pods to a vine, this is a wonder. It is one of the smooth-seeded, extra-early varieties which can be sown the first thing in the Spring, and for the type of Pea the quality is all that can be desired. It's a bonanza for market gardeners. We first offered it in 1901 and we keep it right before the public as being one of the really valuable varieties for first early. Try it and see if you don't agree with us. (See illustration.) Large pkt., 10c.; ½ pt., 20c.; pt., 30c.; qt., 50c.; ½ pk., \$1.25; pk., \$2.00; bu., \$7.00.



Prolific Early Market



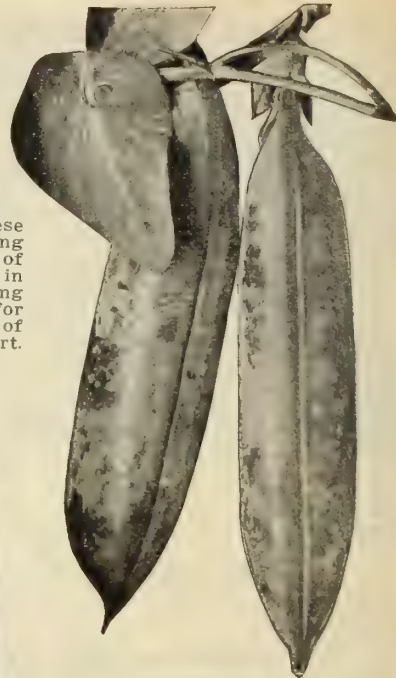
Thomas Laxton

Thomas Laxton—A Fine Wrinkled Pea

The vine grows about 3 feet high, much like that of the Gradus, or Prosperity, but more hardy and greatly more productive. Pods large, long, with square ends, similar to but larger, longer and handsomer than those of the Champion of England, and fully as uniformly well filled. The green Peas are very large, fine colored and unsurpassed in splendid quality. We are certain that this Pea needs only to be known to become one of the most popular sorts for the market gardener and home garden. Pkt., 10c.; pt., 35c.; qt., 65c.; ½ pk., \$1.50; pk., \$2.75; bu., \$10.00.

First and Best

Height, 2½ feet; standard, extra-early Pea; very hardy, prolific; can be planted early. Pkt., 10c.; pt., 30c.; qt., 45c.; ½ pk., \$1.10; pk., \$1.90; bu., \$6.75.



Little Marvel

Little Marvel

This Pea has been rightly named. Another year's trial simply confirms what we have formerly stated regarding its merits. It is an early wrinkled Pea with all the good qualities of American Wonder, Premium Gem and Nott's Excelsior and some of its own besides. It grows about 15 inches tall and bears heavily. There is no earlier wrinkled Pea and the quality satisfies everybody. Our sales increase yearly because Little Marvel never disappoints. We hope every customer who grows Peas will buy it this year and they will thank us for suggesting it.

Large pkt., 10c.; ½ pt., 20c.; pt., 30c.; qt., 50c.; 4 qts., \$1.25; pk., \$2.00; bu., \$7.00.

Livingston's First-in-Market

Excellent variety, very profitable for the gardener and shipper, because it ripens uniformly, so that almost every pod may be gathered at one picking. The pods are handsome, straight and full of medium-sized round Peas of superior quality; it is immensely productive for such an early sort. Pkt., 10c.; pt., 30c.; qt., 50c.; ½ pk., \$1.25; pk., \$2.00; bu., \$7.00.

Livingston's Selected Extra-Early Alaska

This fine Pea has become a standard extra-early market variety, and is the earliest of all blue Peas; grows about 30 inches tall; very uniform in maturing the crop; of excellent quality, and retains its desirable color after cooking. Our strain is especially fine. Pkt., 10c.; pt., 30c.; qt., 50c.; ½ pk., \$1.25; pk., \$2.00; bu., \$7.00.

Gradus or Prosperity

The Earliest Large Wrinkled Pea Known. Exceedingly Sweet, Tender and Luscious, Fairly Melting in Your Mouth.
(See illustration below)

This extra fine variety combines earliness with large size in a green wrinkled Pea. In earliness the Gradus follows closely after the First Earlies, being only two or three days later than Livingston's First-in-Market. In height, they grow about 2½ feet. The vine is very robust, bearing the handsome, large pods profusely all over the vine. The pods are long and straight; and well filled with luscious sweet peas of superb quality. No pea of recent introduction has attracted as much attention as the Gradus, or Prosperity, especially with the market men, for whom it has been a **money-maker** from the start. It produces most uniformly large pods, measuring 4 to 4½ inches in length, and well filled with large, handsome peas. It is certainly a very fine variety. Pkt., 10c.; pt., 35c.; qt., 60c.; ½ pk., \$1.50; pk., \$2.50; bu., \$9.00.



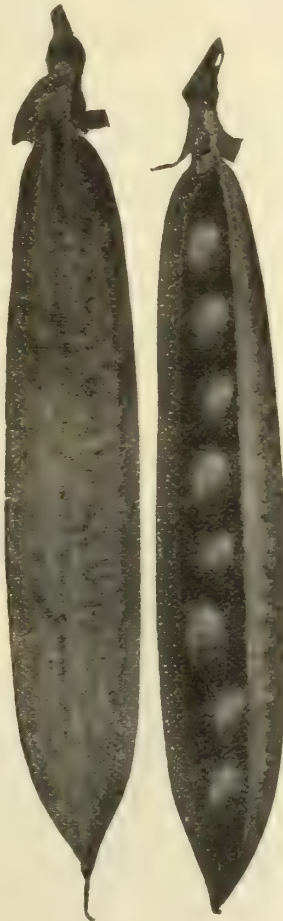
Sutton's Excelsior

Sutton's Excelsior

A fine wrinkled Pea so hardy that it may be planted as early as the hard-seeded varieties. The plants are dwarf (about 15 inches high), of vigorous growth and very productive. The quality is all that could be desired. Sutton's Excelsior produces larger and broader pods than most early varieties and it matures within a few days of Nott's Excelsior. It is a desirable variety for home and market use and is one of the varieties which is well worth growing. (See illustration.) Pkt., 10c.; pt., 30c.; qt., 50c.; ½ pk., \$1.25; pk., \$2.00; bu., \$7.00.

Potlatch

A new variety of great value, growing 15 to 18 inches high. Very large pods, measuring up to 6 inches in length. Vines and pods are a rich, dark green, and pods contain 8 to 9 immense peas. The plant is a vigorous grower, the pods being borne in pairs. It is a great producer and the quantity of Peas which shell out is surprising. One of the most promising new varieties. Pkt., 10c.; pt., 35c.; qt., 60c.; ½ pk., \$1.50; pk., \$2.50; bu., \$9.00.



Gradus

Gregory's Surprise

An extra-early wrinkled Pea. A very heavy cropper and it has that peculiar sweetness which belongs to the wrinkled sorts, combined with the hardiness of the smooth varieties. Vines grow 24 inches in height and need no brushing if sown thin. Pods well filled, containing 6 or 7 peas. Pkt., 10c.; pt., 30c.; qt., 50c.; ½ pk., \$1.25; pk., \$2.10; bu., \$7.50.

D. W. Robertson, Fendleton Co., Ky., writes (Oct. 23, 1913), as follows: "We tested Livingston's Early Sugar Corn with two other varieties, in three (3) different plantings. Practically all our roasting ears were from Livingston's Sugar. The weather was so dry that with the last planting the stalks did not grow to half their normal size, but the little ears were well filled with grains, while the other varieties of corn planted at the same time produced no grains."

J. V. Gunn, Erie Co., Ohio, writes (10-7-12), as follows: "Enclosed find express receipt for basket of specimen bulbs of the Giant Gibraltar Onions. These onions yielded at the rate of about 1400 bushels per acre from one place where they were the best. From 162 sq. ft. I took 7 bushels or 1882 bushels per acre."

Nott's Excelsior

(See illustration)

This is one of the standard high-grade Peas that have established themselves with gardeners so firmly that many will take no other variety for its season. Its quality is fine and for a wrinkled Pea it is hardy and thoroughly reliable. It does not require staking and the pods ripen evenly, making it extremely valuable for home and market use. Our sales of this variety are always large. Pkt., 10c.; pt., 25c.; qt., 45c.; ½ pk., \$1.10; pk., \$1.75; bu., \$6.50

American Wonder

A leading dwarf wrinkled Pea; esteemed for earliness, productiveness, flavor and quality. Strong and robust in habit, growing about 10 inches high, and produces a profusion of good-sized pods, which are fairly packed with the finest flavored Peas. Has always been a great favorite for the home garden. Pkt., 10c.; pt., 30c.; qt., 50c.; ½ pk., \$1.25; pk., \$2.10; bu., \$8.00.

Premium Gem

A very fine Extra-Early Dwarf Pea of Little Gem type, on which it is a decided improvement; pods are larger and more productive. Pkt., 10c.; pt., 30c.; qt., 50c.; ½ pk., \$1.25; pk., \$2.00; bu., \$7.00.

Parcel Post has not affected the rate of 8c. per pound on seeds, plants and bulbs regardless of distance. The limit of weight is now 20 pounds.



Nott's Excelsior

Carter's Telephone

The favorite late variety for the market gardener. Extra large pods. This Pea has proved to be a most valuable introduction. Vine large, coarse leaves, height about 4 feet. The pods are very large and filled with immense Peas, which are largest of any. (See illustration.) Tender, sweet and of splendid quality and flavor. The stock we offer has been selected with every care, and will give satisfaction to the most exacting grower. Pkt., 10c.; pt., 30c.; qt., 50c.; ½ pk., \$1.25; pk., \$2.10; bu., \$7.50.

Alderman

We give this Pea a prominent place because of its merits. It is a late wrinkled variety growing four to five feet high and bearing freely large pods of a dark green color and over five inches in length. These pods each contain eight or nine large Peas of unsurpassed flavor. Alderman is right up at the head of the list as a late Pea. Pkt., 10c.; pt., 30c.; qt., 50c.; ½ pk., \$1.25; pk., \$2.00; bu., \$7.00.

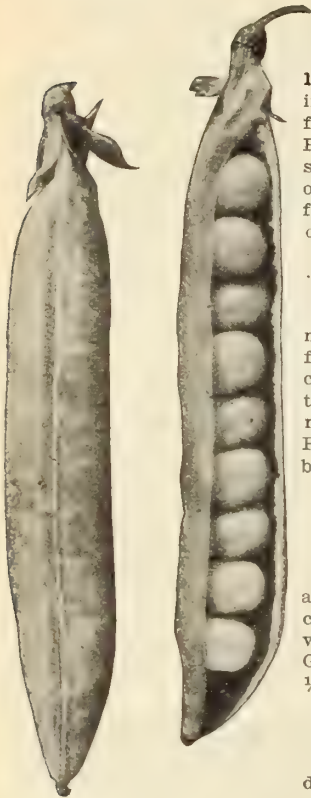
Laxtonian Pea

The Dwarf Gradus

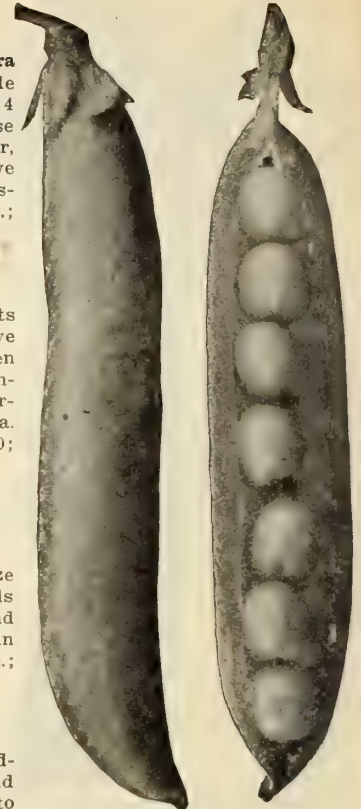
This is a giant podded, early, dwarf Pea—the same size and quality as Gradus but requires no supports. The pods contain eight to ten large Peas of extra fine quality and we predict for this variety an even greater popularity than Gradus. (See illustration.) Pkt., 15c.; pt., 40c.; qt., 65c.; ½ pk., \$1.75; pk., \$3.00; bu., \$11.00.

Quite Content

A new English variety which is probably the largest podded of all Peas. The vines grow four to five feet tall and produce mammoth pods which are well filled with nine to eleven Peas of fine flavor. In season it is about the same as Alderman or Telephone. Pkt., 15c.; pt., 40c.; qt., 65c.; ½ pk., \$1.75; pk., \$3.00; bu., \$11.00.



Alderman



Telephone

Pioneer

One of the latest introductions and bids fair to take a prominent place in the lists. It is an early dwarf wrinkled variety growing about a foot high and producing abundantly pods about four inches long filled with six to eight large Peas of exceptionally fine flavor. It is well worth trying and we shall be glad to have all who do report on it. Pkt., 15c.; ½ pt., 30c.; pt., 45c.; qt., 75c.; ½ pk., \$2.25; pk., \$4.00; bu., \$15.00.

Heroine

Is a medium-early green wrinkled Pea, about 2 to 2½ feet high, and bears a profusion of extra large, long, slightly pointed pods, containing nine to ten large Peas of fine quality. A great favorite for market purposes. Pkt., 10c.; pt., 30c.; qt., 50c.; ½ pk., \$1.10; pk., \$2.00; bu., \$7.50.

McLean's Advancer

The leading Pea for second-early. Excellent flavor, very productive. This Pea is used very extensively by market gardeners on account of its great productiveness and its exceedingly fine flavor. It is a wrinkled variety, grows about two feet in height. Has long pods, and well filled to the end. Ripens so uniformly that the vines can be picked clean in two pickings. Cannery and market gardeners grow this splendid variety for second-early. Pkt., 10c.; pt., 25c.; qt., 45c.; ½ pk., \$1.10; pk., \$1.75; bu., \$6.50.



Laxtonian

Improved Stratagem

A favorite late variety with market gardeners and for the kitchen garden. Strong vines, immense pods, large Peas, heavy cropper, true stock. The vines are strong, vigorous and covered with immense pods, many of which measure nearly 5½ inches in length and containing as high as ten large, richly flavored, wrinkled Peas. Vines very strong and needing but slight support. Twenty pods to a vine. The vine branches just under the surface of the soil, two generally of equal vigor growing to a height of 2 to 2½ feet. The quality is excellent. Our stock has been carefully selected. Pkt., 10c.; pt., 30c.; qt., 50c.; ½ pk., \$1.25; pk., \$2.25; bu., \$8.00.

Duke of Albany

A large Pea of Telephone type, growing about four feet high, producing heavy crops of pods which are of a deep green color. Its fine appearance and good quality have given it a place amongst the late varieties. Pkt., 10c.; pt., 30c.; qt., 50c.; ½ pk., \$1.25; pk., \$2.00; bu., \$7.00.

Champion of England

An old variety, but considered by many the best tall-growing sort; but needs support always. Prolific bearer of large pods, well filled with large wrinkled Peas; quality is simply elegant; 5 feet high. Pkt., 10c.; pt., 30c.; qt., 50c.; ½ pk., \$1.25; pk., \$2.00; bu., \$7.50.

Livingston's Prolific Giant-Podded Sugar Peas

Excels all other Sugar Peas in size, productiveness and quality. Vines are about 30 inches in height. The pods are gigantic in size, broad, sweet and tender, extremely fleshy and equal to the best Snap Beans for cooking pods and all. This is a very decided improvement in Sugar Peas. (See illustration.) Pkt., 10c.; pt., 30c.; qt., 50c.; ½ pk., \$1.20; pk., \$2.25; bu., \$3.50.

White Marrowfat

Grows 4 to 5 feet in height. Pods large, round, light green and well filled. Excellent for Summer crop, but of inferior quality. Pkt., 10c.; pt., 25c.; qt., 45c.; pk., \$1.10; bu., \$4.00.

Black-Eyed Marrowfat

Similar to White Marrowfat, but the seed has a dark eye; used for late crop; an old-fashioned variety. Pkt., 10c.; pt., 25c.; qt., 40c.; pk., \$1.10; bu., \$3.75.

Field and Cow Peas—See page 75.

Livingston's Home Collection of the Three Best Peas for the Private Garden

The varieties contained in this collection are all superior wrinkled sorts—sweet, tender and delicious. It contains early, medium and late sorts, and will supply the table with a succession of Luscious Peas throughout the season.

Gradus—Bears extremely large pods well filled with luscious peas early in the season. See page 53.

Telephone—The largest of all late peas and a tremendous cropper of handsome pods. See page 54.

Sutton's Excelsior—A fine dwarf second-early variety; very prolific and of excellent quality. See page 53.

One pkt. each of 3 Best Peas, 25c.; 1 pint each of 3 Best Peas, 85c.; 1 quart each of 3 Best Peas, \$1.50; all sent postpaid.

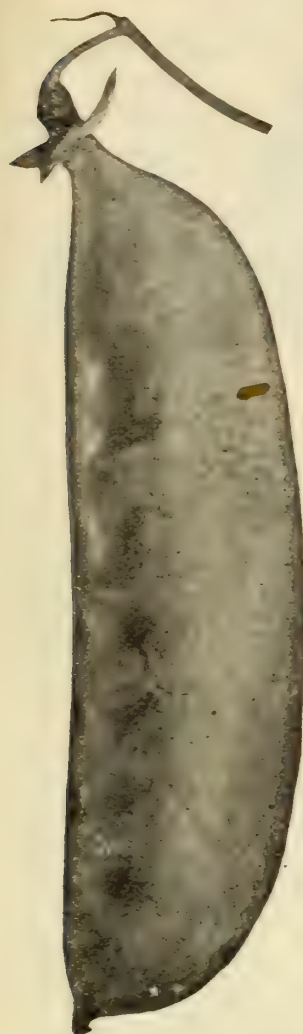
Livingston's Choice Peppers

Pimiento

Pfeffer

Peppers should be started in a hotbed or cold-frame and transplanted about the end of May into a sunny corner of the garden, in rows about 2 feet apart, with the plants about the same distance between them in the rows. Can also be sown in open ground in a prepared seed bed when all danger from frost has passed and the weather has become settled and the soil warm. When the little plants are about 3 inches in height, transplant as above into the rows where they are to remain. Some very rich fertilizer stirred into the soil when the plants are about 6 inches high will be found very beneficial to the crop. The Peppers intended for mangoes should not be grown near the hot varieties, as if so they will partake of their fiery nature. One ounce of seed will produce about 1500 plants.

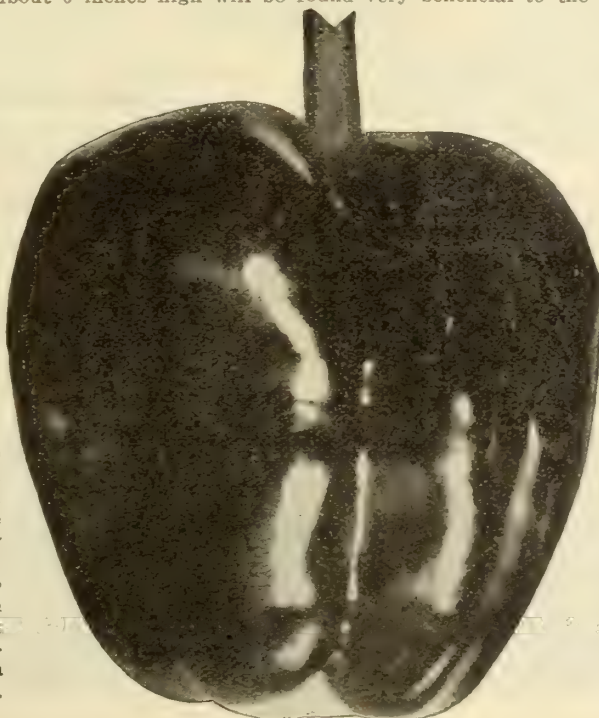
Improved Thick Long Red



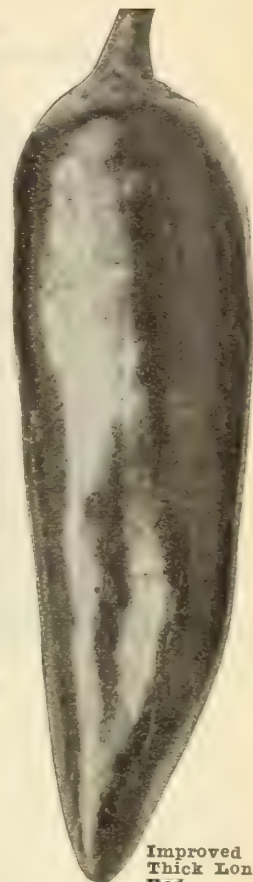
Livingston's Giant Podded Sugar Pea

Livingston's New Ohio Crimson

(Introduced by us in 1906.) Habit of growth robust and stocky, with no tendency to grow an immense plant with little or no fruit. The fruit is fully as large as Chinese Giant; in shape not quite so blocky, yet not so long as Ruby King. (See illustration.) In weight, Livingston's Ohio Crimson is much heavier than a Ruby King of same size. In flavor it is the mildest we have ever known, as the flesh may be eaten raw from the hand. Growers tell us they have no difficulty in selling all they can grow, customers preferring it to all others for making mangoes. Our seed is saved from finest, largest specimens. Pkt., 10c.; ½ oz., 30c.; oz., 50c.; ¼ lb., \$1.25.



Livingston's Ohio Crimson

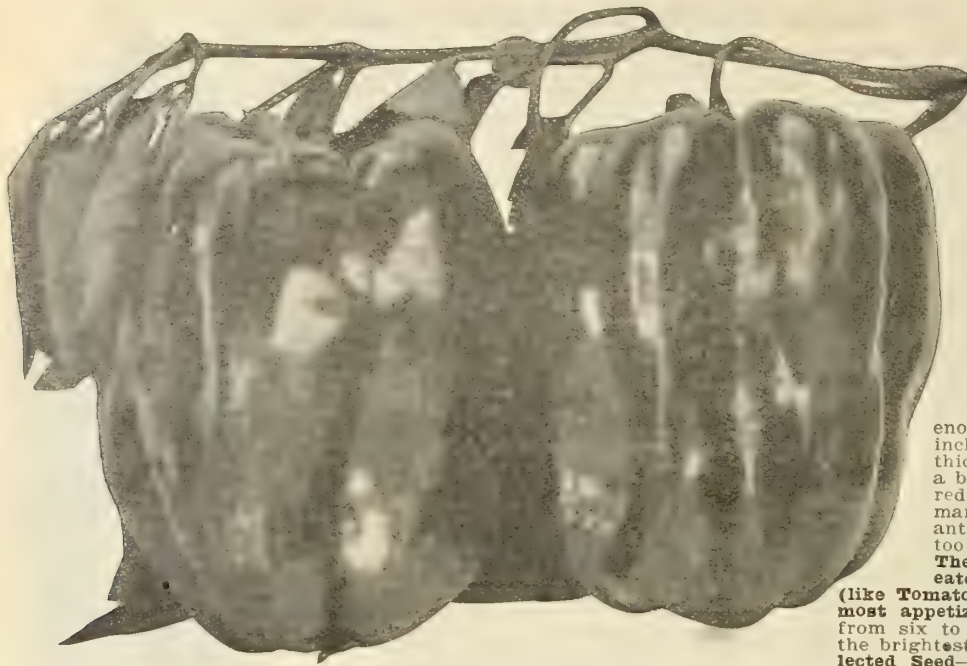


Livingston's Improved Thick Long Red

A great improvement on the ordinary Long Red Cayenne—Of about the same length but much thicker, and has two to three times as much meat; averaging about 1 inch in diameter at the stem end. They are grown almost exclusively for some markets. Exceedingly prolific; are very hot and handsome. Produced early in the season while prices are high. See illustration of natural-sized pod above. Pkt., 5c.; ½ oz., 20c.; oz., 30c.; ¼ lb., 85c.; lb., \$3.00.

A. M. Wilson, Port Credit, Ont., Can., writes (3-3-13): "I had some of your new Early Sugar Corn last year and found it came up to the standard you claimed for it—think it fine."

Mrs. E. A. Adams, Utica, O., writes (3-3-13): "Your seeds are indeed 'True Blue.'"



Livingston's Selected Ruby King

Mammoth Ruby King Pepper

Our Mammoth Ruby King Pepper is one of the largest and finest mild Red Peppers in cultivation. Not only is it very productive for so large a Pepper, but its splendid size and handsome appearance make it sell most readily in any market, and for the kitchen garden it is a special feature. The plants are vigorous, stocky and dwarf; very bushy, growing not over 2 feet in height. They are well branched; thickly set with enormous fruits, some 4 to 6 inches long by 3 to 4 inches thick. When ripe, they are of a beautiful bright, glossy ruby red color, and are always remarkably mild and very pleasant to the taste if not grown too close to the hot varieties. **They can even be sliced and eaten with salt and vinegar (like Tomatoes or Cucumbers), and are most appetizing.** Each plant produces from six to twelve handsome fruits of the brightest ruby red. **Our Special Selected Seed—**Pkt., 5c.; large pkt., 10c.; ½ oz., 20c.; oz., 30c.; ¼ lb., 85c.; lb., \$2.75.

Livingston's Prolific Yellow Pepper

Immensely productive of bright yellow fruits of the most convenient size for stuffing. Comes into bearing much sooner than the mammoth sorts, and is the surest crop of all. We secured a small amount of the seed of this variety some years ago from one of our customers and after carefully selecting it so as to produce fruits true to type, we are now offering it for the first time.

On account of the mildness and thick walls of Livingston's Prolific Yellow Pepper, it is one of the finest for use in salads or pickles. You miss a good thing if you don't use this Pepper in your crop for 1914. See back page of cover. Pkt., 15c.

Chinese Giant

Without doubt one of the very best and largest Mango Peppers that was ever introduced. Its mammoth size, splendid shape, beautiful, rich, glossy flesh and mild flavor all lead us to speak of it in words of commendation. Very popular with all. Its strong, bushy plants, which are literally loaded with the splendid large fruits, begin bearing quite early and continue throughout the season. Has few seeds; hence the genuine is necessarily high in price. Pkt., 10c.; ½ oz., 30c.; oz., 50c.; ¼ lb., \$1.50; lb., \$5.00.

Neapolitan

This is the earliest of the large, mild red Peppers, grows about two feet high and is completely laden with fine Peppers about four inches long. Worthy of a place in every garden. Pkt., 10c.; ½ oz., 20c.; oz., 30c.; ¼ lb., 80c.; lb., \$2.50.

Giant Golden King—An exact counterpart, except in color, of the famous Ruby King. Bears large, handsome fruits of most attractive bright yellow. Flavor mild and pleasant. Pkt., 5c.; ½ oz., 20c.; oz., 30c.; ¼ lb., 85c.; lb., \$3.00.

Long Red Cayenne—Four inches long and one-half to three-quarters inches in diameter; flesh thick and hot. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.25.

Small Cayenne (Red Chili)—Pods 1½ to 2 inches long; very hot; used for making pepper sauce. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

New Sweet Upright

Fully twice as productive as any large sweet Pepper. The fruits are just the right size, not too large, blocky in shape and about 3 inches long, 2½ inches to 3 inches across stem end and about 2 inches at the blossom end. The average weight is from 6 to 8 ounces. The flesh is extremely thick, mild and sweet, and the skin very tender; in fact, so very mild, sweet and crisp that it may be eaten like an apple. The color of the ripe fruit, both skin and flesh, is a rich, brilliant scarlet. It is a grand market Pepper. Pkt., 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Sweet Mountain

One of the large sorts. Very thin skinned, sweet and mild flavored; much used for stuffed pickles. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

Large Bell, or Bull Nose

An early variety and of mild flavor; the skin is quite thick and fleshy; of medium size; is very popular. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

Mixed Mango Peppers

A choice mixture containing a very large number of varieties suitable for stuffing and mangoes. Pkt., 10c.; 3 pkts. for 25c.

Red Cluster—Its very distinct and brilliant scarlet fruit is curiously crowded together in bunches or clusters at the top of each branch. A single plant bears hundreds of handsome hot Peppers an inch or smaller in length. Pkt., 5c.; ½ oz., 15c.; oz., 25c.

Cherry Red—Fruit small, round, rich scarlet and extremely hot. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.

"Red Hot" Mixture—Includes a great number of small and ornamental sorts, which are indeed just as "hot as fire." Pkt., 10c.; 3 pkts., 25c.



Setting Out Young Pepper Plants on Our Kirkersville Farms.



Calabazas **Livingston's Prize Winning Pumpkins** Speise Kurbisse

Pumpkins are not so particular in regard to soil as Melons or Cucumbers, but in other respects are cultivated in a similar manner. Sow in the month of May, when you plant your corn. Make hills, the same as you do for Squashes, but do not make the hills too close; you will find that 8 or 10 feet apart each way is best. It is preferable to grow Pumpkins in the field, and not in the garden, as they always mix badly with the Squashes and other vines. You will, of course, sow some amongst your late corn, putting in a few seeds, say, every third or fourth hill. This will give you plenty for the table, and your stock the coming Winter. **One ounce of seed will plant 15 hills; 3 to 4 lbs. plant an acre.**

Large Sweet, or Kentucky Field

Large, round, flattened, hardy and productive. 1 to 2 feet in diameter. It has thick flesh of extra fine quality and is a splendid sort for family and market use, also grown largely for stock feeding. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

Small Sweet or Sugar Pumpkin

This is the small, sweet Pumpkin that has made the New England States famous for their pumpkin pies. It is a very fine grained, most deliciously sweet-flavored sort. Splendid keeper. They average about 10 in. in diameter. Deep orange-yellow color. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

Mammoth Tours—Immense size, often weighs 100 pounds. Oblong; skin green; good exhibition sort or for feeding stock. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Genuine Mammoth, or True Potiron

(King of the Mammoths, a Jumbo Pumpkin)

Form like immense Nutmeg Musk Melon with depressed ends, slightly ribbed, often 3 feet or more in diameter and weighs over 200 lbs. Salmon color; flesh bright yellow; fair quality. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

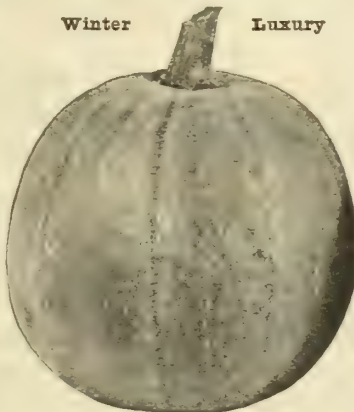
Winter Luxury

Or Livingston's Pie Squash is listed and fully described among Squashes on page 61. Thick, sweet flesh of elegant flavor make this sort a universal favorite for pies. (See illustration of specimen fruit center of this page.) Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Tennessee Sweet Potato—Bell shape; medium size, thick flesh, skin creamy white, fine grained, sweet, delicious. Very fine for pies. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Winter

Luxury



Large Sweet Cheese

Best for canning. Has heavy, thick, sweet meat; large, round, flattened variety, with creamy-buff skin. An excellent keeper, and very productive; good quality. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

Common Yellow Field

Yankee Cow Pumpkin, or Connecticut Field—The common Yellow Field Pumpkin, so very largely cultivated by our farmers for stock feeding; very productive. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.; 3 lbs., \$1.00, postpaid.

Japanese Pie

Crooked neck; quality fine; very productive; ripens early; medium size. Excellent for pies. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Livingston's Pumpkin Mixture

One Sowing Furnishes Pumpkins for the season. Especially offered to those who wish to grow a grand collection of Pumpkins for Fall fairs. For 10c. you obtain seed of every variety in list. Large pkt., 10c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.

Rubarbo Rhubarb, or Pie Plant Rhabarber

Requires a deeply cultivated and thoroughly manured soil. Sow the seed early in the Spring, in rows 1 foot apart; the second year after planting plants can be removed in Autumn to the permanent place in the garden allotted to them. Plant the roots 2 feet apart each way, at least 2 feet deep. **One ounce of seed gives 500 plants.**

Victoria—In general use for market and home garden. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Rhubarb Roots are offered on page 70.



Large Sweet Cheese Pumpkins



Rabanitos **Radishes** Radieschen

All varieties thrive best in light, sandy loam. For early use, sow in the hotbed in February, giving plenty of ventilation, or outside in the garden, in drills, as soon as the soil is warm and dry, covering the seed about half an inch deep. Sow every two weeks from March until September, for a succession of crisp Radishes for continued use. Radishes must grow rapidly to be crisp, mild flavored and tender. We offer a very fine assortment. **One ounce of seed will plant 100 feet of drill; 8 to 10 pounds for an acre.**

Round and Olive-Shaped Sorts

Rosy Gem

(See illustration above)—One of the earliest; is perfectly globular; a rich deep brilliant scarlet at top, blending into pure white at the bottom; exceedingly tender and crisp; most delicious; desirable for market or home garden. Certainly a fine variety. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

Non Plus Ultra (Or Fireball)

The earliest forcing Radish in cultivation. A pretty little round Radish; deep rich scarlet in color; tops very small; crisp, tender, white flesh; a little earlier than Scarlet Globe, but not so large. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

Scarlet Globe

This splendid globe Radish is the very finest early strain of the round, bright red Radishes. Nothing can surpass its table excellence or its beauty. The skin is a bright scarlet; flesh pure white, crisp, tender and of delicious quality. Fine for market gardeners who want a large first-early forcing Radish. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.

Early Snowball

(See illustration)—One of the quickest growing, besides being one of the prettiest round varieties in the whole list; white as snow, smooth as glass, very crisp and extremely tender. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

Scarlet Turnip White Tip

Handsome bright scarlet, with white tip; most attractive; quality splendid. Similar to Rosy Gem. Desirable for outside growing. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 65c.



Scarlet Globe Radishes

Crimson Giant

A variety combining earliness and great size. It grows much larger than other extra-early varieties, but does not become pithy, even when fully twice as large in diameter and a week older; beautiful crimson-carmine; turnip shaped; flesh firm, crisp and tender. We recommend it for outdoor garden planting as well as for greenhouse forcing. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.25.

Early Scarlet Turnip

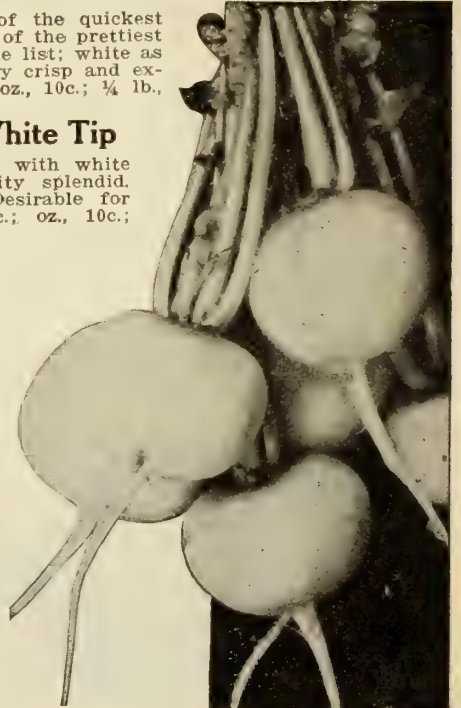
Very early, small, round Radish; entire Radish is of a rich scarlet color. This splendid variety has always been a great favorite with market gardeners and for kitchen garden alike. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 55c.

Model White Box

Short top, of rapid growth; perfect turnip shape; extra fine quality, remaining solid and juicy for a long time; is especially suitable for growing under glass in frames. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 55c.

French Breakfast

Of quick growth; very mild and tender; of an oval form, scarlet, tipped with white. One of the best for greenhouse or home garden. Popular with many growers. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 55c.



Snowball Radish

A. C. Barras, Washington Co., N. Y.: "The garden seeds I got from you last year produced Corn, Hubbard Squash and Tomatoes larger than I saw at the Fair. I shall exhibit this year, if they do as well."

Early Long Radishes

Livingston's Pearl

A beautiful pearly-white, half stump-rooted variety of exceptional merit. It is very firm and solid and after having reached its best condition, it remains in good shape for some two weeks before becoming woody or showing any signs of going to seed. It is a radish we can heartily recommend and a variety which for all purposes is first class. Every one who likes a long Radish should plant Livingston's Pearl. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 80c.

Cincinnati Market

This superb Radish originated in the vicinity of Cincinnati, Ohio, with the "Glass Gardeners" there, and has been continually used by them for more than twenty years. We introduced it to our trade in the Spring of 1895, and it at once became so deservedly popular that we have had to grow it ever since by the thousands of pounds to supply the demand. The tops are so small that the Radishes may stand touching each other in the rows. The Cincinnati Market Radish grows perfectly straight and smooth, 6 to 7 inches in length. (See illustration.) Skin scarlet colored, very thin, the flesh crisp, brittle and of delightful flavor. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 65c.

Early Long Scarlet Short-Top

Admirable for forcing; the leading outdoor quick-growing variety, both for private and market gardens; the average length is 6 to 8 inches; grows about half out of the ground, straight, uniform; tops small; bright scarlet in color, brittle and crisp. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 55c.

Long White Icicle

Grows about 4 inches long; slightly stump-rooted, and of transparent whiteness; short leaves, matures quickly; most excellent flavor; equally desirable for home or market gardeners. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 65c.

Half-Long Deep Scarlet Radish

Color deep, rich red. Shape, half-long, tapering. Flesh pure white, crisp, tender, brittle, not becoming pithy until very long overgrown. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

Brightest Long Scarlet

(Cardinal White-Tipped)—Resembles Early Long Scarlet Short-Top in shape and size; extra-early; bright scarlet; white-tipped; a rapid seller. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

Wood's Early Frame

Ten days earlier than the Early Long Scarlet Short-Top, which it resembles; excellent for forcing and for first sowing outside, being very hardy; half-long. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 65c.

Summer Radishes

Improved Chartier

A distinct and exceedingly attractive sort; a clear rose colored long Radish, shading into pure waxy white at the tips. Attains very large size. Perhaps one of the best all-seasons Radishes for the open ground. Grows very fast; ready for use or market nearly as early as Early Long Scarlet Short Top; keeps crisp two months. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

Chartier Long White

Developed from Improved Chartier, and in all respects similar, only color is pure white. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

Golden Globe

Most perfect globe shape; golden colored skin; very quick grower; white flesh, tender, brittle; long standing. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

New Purple

Similar to White Strasburg, except in color. Has the same fine qualities and its color always attracts attention. Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.50.

Lady Finger

or Long White Vienna

Beautiful in shape; skin and flesh are pure white, very crisp and brittle; a most rapid grower and long standing. A fine variety. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

Large White Summer Turnip

A favorite with market gardeners. Round, smooth; very white; crisp and tender. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

Geo. Street, Ontario, Can., writes (Oct. 20, 1913): "Enclosed find order for Grand Rapids Lettuce. I have never had such good Grand Rapids Lettuce since in business; for growth and size it has no equal."



Abraham Bell, Flushing Co., N. Y., writes (2-24-13): "I have raised the Columbus Market Sweet Corn for years and my customers praise it."

Livingston's All-Seasons Radish Mixture

Livingston's All-Seasons Mixture of Radish Seed contains all shades and shapes—red, white, pink and variegated; round, half-long and long, in great variety. (See illustration.) It is all the go for small gardens, where space is limited, and you want to make a garden and be done with it. One sowing does for the whole season, as they become ready for your table early, medium and late. **You always have some that are just right—sweet, juicy, delicious, crisp.** You will be surprised and delighted with our popular radish mixture. **Your garden will not be complete without a bed of these radishes.** Large packet, 10c.; oz., 15c.; 2 oz., 25c.; ¼ lb., 35c.; lb., \$1.00.

Illustration below shows a few of the varieties in this mixture



Produced from Livingston's All-Seasons Radish Mixture. Large Packet, 10 cents.

Giant White Stuttgart—Of large size; in shape like a top; flesh and skin white; fine quality; firm and brittle, never pithy; can be stored for Winter use. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., 90c.

White Delicious—Is a new German sort of distinct half-long shape, with delightfully crisp and brittle flesh. Stands longer than White Vienna. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

White Strassburg—Handsome, oblong tapering shape; both skin and flesh are pure white; firm, brittle, tender and possessing the most desirable character of retaining its crispness even when the roots are old and large. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., 90c.

Gray Summer Turnip—Crisp, tender and brittle; a very choice variety. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 55c.

Babanos Winter Radishes Rettige

Sown in Summer and used in the Fall, or put away as you do Turnips for Winter use.

White Chinese

(**New Celestial**)—(See illustration alongside)—A large stump-rooted Radish with white skin and flesh. Can be sown from July 1 to August 15, and will keep in prime condition a long time; mild in flavor, brittle and never woody. Fine for market gardeners. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., 90c.

California Mammoth White—Is grown extensively in California; 8 to 12 inches long, 2 to 3 inches in diameter; white, solid and of good quality. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Long Black Spanish—Grows 5 to 8 inches long, 1 to 1½ inches through at top; skin black, flesh white and firm. One of the oldest, but nevertheless one of the best Winter sorts. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

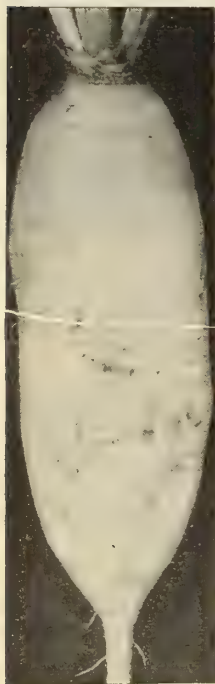
Chinese Rose Winter—A very handsome and distinct variety; color the brightest rose; crisp and tender; cylindrical in shape, very smooth; very desirable sort; keeps splendidly through Autumn and Winter. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Scarlet Pamir—Fine, deep red, turnip-shaped sort of crisp, mild flavor; one of the best. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.

Round Black Spanish—Similar to Black Spanish except in shape; fine for Winter. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 55c.

Long White Spanish—Differs from Long Black Spanish in color only. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Special Prices on Large Quantities of Radish Seed.



White Chinese Winter Radish

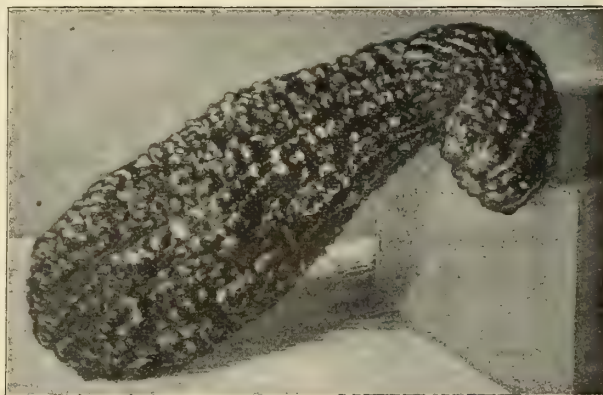
Cidracayote Squashes Speise-Kurbisse

Plant in hills after ground is warm and dry—bush varieties 5 to 6 feet, running varieties 6 to 8 feet apart. Manure thoroughly. Elevate hills and plant 7 or 8 seeds leaving three plants; early 1 inch deep, late ones 1½ inches. **One ounce of Bush varieties for 40 hills, Winter kinds for 15 hills; 2 to 3 lbs. of Bush or 4 to 5 lbs. of Winter kinds for one acre.**

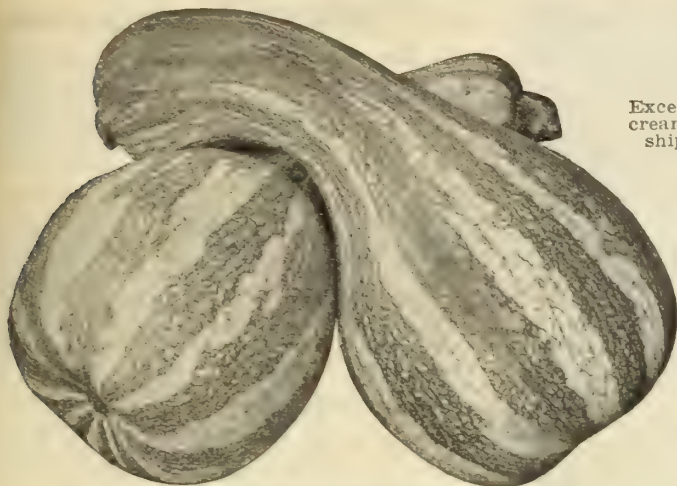
Summer Varieties

Giant Golden Summer Crookneck

The largest and best of all Summer Crookneck Squashes. Of a dwarf, bushy habit and very productive; bears early and all Summer; true Crookneck type; rich golden yellow color; thickly warted. Its cooking qualities are unexcelled. One of the best varieties for the market or table use. (See illustration.) Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.



Giant Golden Summer Crookneck Squash



Livingston's Improved Cushaw

Livingston's Improved Cushaw

(See illustration)—The genuine Cushaw of "ye olden times," and a great favorite. Beautiful in appearance; a distinct mottled green, white striped. Fruit solid; average 15 to 25 pounds. Flesh yellow, fine grained, sweet and excellent for pies. Sells well on the market. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

New Ohio Giant Squash

Very productive, and when the soil is rich and not too many fruits are left on the vine will produce gigantic specimens 3 to 4 feet long. The color is a deep orange, irregularly mottled with a heavy grayish netting. The flesh is a rich deep golden yellow, and suitable for stock. Pkt., 10c.

Dunlap's Prolific, or Orange Marrow

The earliest of the Fall varieties, and much sooner ripe than any other Marrow Squash. Very prolific, a bright orange red; it is a general favorite; its quality is the best. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

Boston Marrow

Of oval form and thin skin. Color a rich orange; of good size, excellent flavor and keeps well. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Essex Hybrid

Hard shell; solid, thick-fleshed, fine grained, rich flavored; prolific and of the best quality. Flesh rich orange color. Turban shape. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Gregory's Delicious

The result of years of selection and crossing, the Hubbard having been prominently used in its make-up. Green when matured. Flesh thick, dark orange in color; dry, sweet and of rich flavor. Is best as Fall and Winter variety, improving with age. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.

Mammoth Chili

Oblong, productive; profitable for stock. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., 90c.

Mammoth Whale

Often grows 3 feet long; sometimes weighs 100 pounds or over. Slate color; prolific; flesh solid, orange color; quality good; keeps well; suitable for stock. Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

Summer Squashes—Continued

Mammoth White Bush Scallop

Excellent large strain. Nearly as early as the common sort; creamy white; splendid for market or home garden; good shipper. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Early White Bush, or Patty Pan—Bears fruits ready for use very early in the Summer. Of true bush habit and very productive. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Mammoth Yellow Bush Scallop (Golden Custard Bush Squash)—Decidedly the best strain of Yellow Scalloped Summer Squash. Double the size of the old sort, retaining all its good points. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

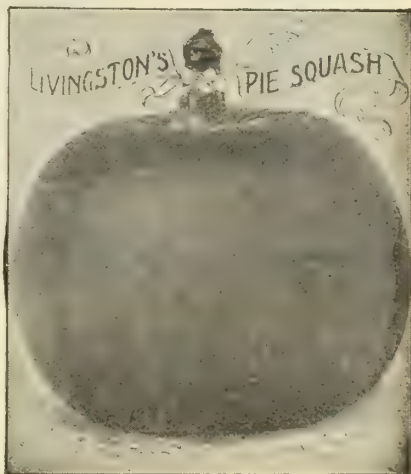
Fordhook—Flesh dry, sweet; early, sure cropper and productive. Skin thin, meat thick; equally good for Summer and Winter use. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

**Winter Squash
Hubbard**

The Standard Winter Squash—It is of good size, often weighing 9 to 15 pounds. Color bluish green. Flesh fine grained, sweet and of excellent flavor. Has a very hard shell and will keep until Spring. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 80c.

Chicago Warty Hubbard—Large size, dark green color, distinguished by a dense covering of knots (warts), a sure indication of splendid quality; thick flesh. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 80c.

Golden Hubbard—Color bright, rich, orange-red; showy and attractive. Shell hard and warty. Flesh deep golden yellow, fine grained and of splendid flavor; cooks dry. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.



Livingston's Pie Squash

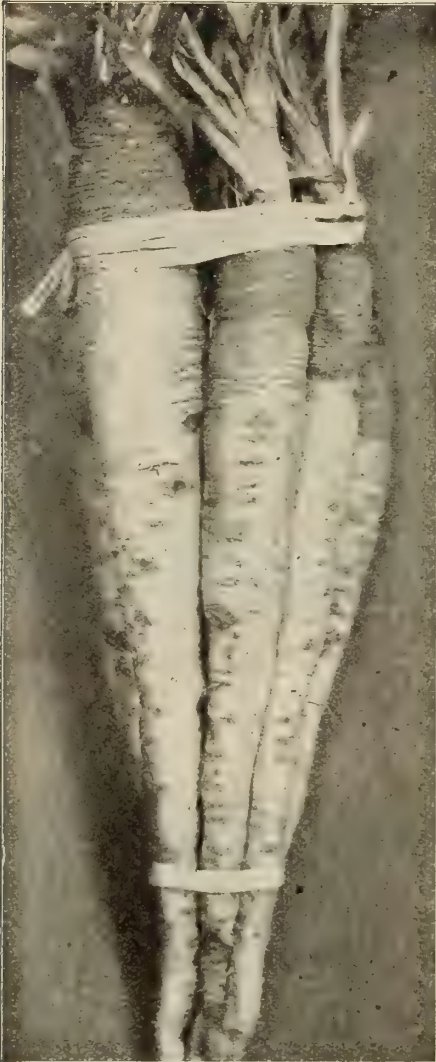
Rich, Sweet Flavor. Makes Good Pies Without Eggs. The color of the skin is similar to that of the Golden Russet Apple. Flesh yellow and very thick. Quite early, surprisingly productive and a rapid and hardy grower. The very finest for pies, making good ones even when eggs are not used. Size 8 to 10 inches in diameter. Large pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Livingston's Squash Mixture

One sowing, Squashes for season. Contains great variety of Summer and Winter sorts; just suited for growing for exhibition or table. Large pkt., 10c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.



Hubbard Squash



Mammoth Sandwich Island Salsify

Salsify or Oyster Plant Haferwurz

When properly cooked it is a good substitute for oysters in taste and flavor, and is very nutritious. A most palatable vegetable; the cultivation is precisely the same as directed for Parsnips and Carrots. Salsify will keep finely through the Winter, in the ground where grown, in exactly the same manner as Parsnips. The roots are perfectly hardy; in fact they are best after the frost has touched them.

When cooking, boil the roots (a small piece of codfish, which should be discarded when the salsify is done, boiled with them strengthens the oyster flavor); when cold, mash, and fry as patties or fritters. This vegetable is also good stewed, plain boiled, and also as a salad, sliced raw in vinegar with pepper and salt. Succeeds best, perhaps, in light, well-enriched soil. If it is necessary to use manure it should be very fine and well-rotted. Sow early in drills 18 inches part and cover firmly one inch deep; thin to three inches apart in the drills. **One ounce of seed will sow fifty feet of drill; eight pounds is sufficient to plant an acre.**

Mammoth Sandwich Island

This splendid variety will average nearly twice the size of the White French Salsify. Grows very uniform. Mild and delicious in flavor. A popular sort with all growers. (See illustration.) Pkt., 5c.; oz., 15c.; ¼ lb., 45c.; lb., \$1.50.

Espinaca **Spinach** Spinat

Spinach will succeed finely in any ordinary soil, and its cultivation is a very simple matter. It is grown both as a Spring and Summer crop. For early use, plant the seed in August or September, in drills 12 to 14 inches apart. At approach of cold weather, cover lightly with straw or any handy litter. Uncover the plants when they begin to make a new growth in the Spring. For Summer use sow early in Spring. Thin to 3 or 4 inches. **One ounce of seed for 50 feet of drill; 12 to 16 pounds for an acre.**

Improved Thick Leaf (Viroflay)

The market gardeners' favorite for Fall or Spring sowing. A great favorite in all parts of the country as it furnishes an abundance of heavy, broad, dark green leaves of finest quality and appearance. The leaves are attractively curled, and on account of their firmness and substance they remain in prime, salable condition for a long time. Also excellent for home use. (See illustration below.) Oz., 5c.; ¼ lb., 10c.; lb., 30c.

Bloomsdale Savoy

Large wrinkled leaves, upright growth; fine quality. Earliest variety, but will not stand long. Oz., 5c.; ¼ lb., 10c.; lb., 30c.

Prickly Seeded Winter

A fine variety with triangular, oblong or arrow-shaped leaves. Hardest of all, therefore best for Fall sowing where Winters are severe. Considered by many one of best varieties. Oz., 5c.; ¼ lb., 10c.; lb., 30c.

Victoria

An excellent sort, whether grown for home use or market. It may be sown with equally good results either in the Spring or during late Summer and Fall. The plants are fit for use early and remain in good marketable condition much longer than most other kinds. The leaves are very thick and juicy and, when prepared properly, develop a delightfully distinct, mild flavor. Oz., 5c.; ¼ lb., 15c.; lb., 40c.

"Long Season" Spinach

Of flat spreading, but compact growth, this sort is especially noticeable for its short-stemmed, dark-green leaves, which are heavily crumpled and savoyed. For marketing during the warm Summer months, it is unsurpassed. Stands longer before going to seed than any other sort on our list. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 30c.

Munsterland

For use in Northern latitudes where sorts with heavy, juicy foliage are injured by frost, we consider this sort a decided acquisition. Stands a long time without going to seed. Plants grow to be a foot in diameter if properly thinned. Quality excellent. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 35c.

New Zealand

Grown in place of ordinary Spinach during the hottest months. Oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Long Standing

Does not run to seed as quickly as others; very dark rich green. Oz., 5c.; ¼ lb., 10c.; lb., 30c.

Prices of Spinach Seed in large quantities will be quoted upon application.



Improved Thick Leaf Spinach

Tobacco Tobacco Seed Tabak

The importance of this crop in many sections makes the use of the very best seed an urgent necessity. Not until we found the right kind of seed, did we offer it. We now feel safe in stating that the quality of seed offered below is absolutely unsurpassed.

Improved White Burley

Well-known sort of great merit. Our strain is grown on the famous limestone fields of Tennessee. Only the choicest plants are set in the seed plots and special care and cultivation insures well matured seed of highest vitality. Careful handling, cleaning and curing of seeds as well as special attention to the crop throughout the season make this strain and seed unsurpassed. Pkt., 10c.; ½ oz., 20c.; oz., 25c.; ¼ lb., 70c.; lb., \$2.25.

Big Havana

Heavy cropper; one of the earliest. Pkt., 5c.; oz., 25c.; ¼ lb., 70c.; lb., \$2.25.

Connecticut Seed Leaf

One of the oldest and best. Pkt., 5c.; oz., 25c.; ¼ lb., 70c.; lb., \$2.25.



A "White Burley" Tobacco Field

Nabos Turnips Ruben

First-early varieties of Turnips should be planted just as early in the Spring as the ground is dry and warm. Sow them in drills, beds, or later broadcast, or among corn. The Ruta-Baga varieties, and also the early sorts, will do better if planted in drills; make the drills at least 18 inches apart, and thin-out the plants when well-up to six inches apart. Cultivate often and thoroughly. We call especial attention to the fact that the Ruta-Baga varieties should be planted as soon as possible after the middle of June, as they need a longer season than the earlier sorts of Turnips. **One ounce of seed sows 100 feet of drill; one pound an acre.**

Purple-Top White Globe

A variety of decided merit. Globular shape, and of superior quality, either for the table or stock; heavy yielder. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Early Snowball—Medium-sized round Turnip; pure white, very fine flavor. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Extra-Early Purple-Top Milan—The earliest of the flat Turnips, with a beautiful purple top. They are mild and sweet. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

Yellow Globe, or Amber—Sweet; large; fine for table or stock. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Purple-Top Strap Leaf

A popular variety for family or market use; white, purple above ground; flesh fine grained; good for Winter use or late planting. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Golden Ball, or Orange Jelly—Rapid grower; globe shaped; is bright yellow. The best of the yellow sorts for table use. Keeps well. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Seven Top—Cultivated extensively for the tops which are used as greens. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Extra-Early White Milan—Similar to Purple-Top Milan, except it has pure white skin and flesh. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Large White Globe—Similar to Purple-Top White Globe, except in color, which is pure white; firm, sweet flesh. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 45c.

Early Flat Dutch, or White Strap-Leaved—A standard flat variety; good size; pure white; small top, few leaves; good early or late. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 45c.

Long White, or Cow Horn—Long; grows rapidly, partly above ground; slightly crooked; productive; white, fine grained, very sweet. Used for plowing under to improve the soil. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

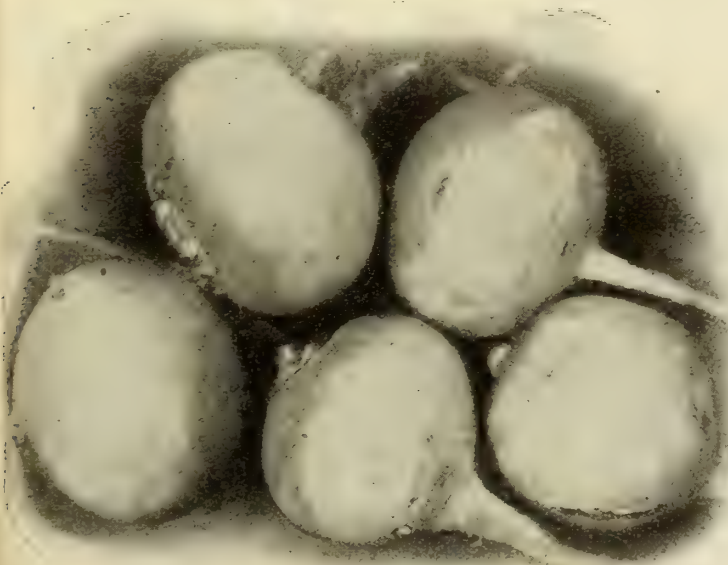
Early White Egg—An early variety. Flesh white, firm, fine grained, mild and sweet. A fine Turnip for Winter use. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Ruta-Bagas

(Swedish or Russian Turnips)

Improved American (Purple-Top)—Very hardy and productive; flesh yellow, sweet and solid; good for stock or table use. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

White Russian, or Large White—Grows very large; excellent for table or stock; flesh is firm, white and solid; the best keeper of any white variety. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.



Purple Top White Globe Turnips



Tomatoes Growing for Seed at Our Farms

Livingston's Famous Tomatoes

New Varieties and the Growing of Large Quantities of Seed Our Specialty

If it were possible for every one who reads these lines to go with us to our seed farms northwest of the city or to our Kirkersville, Ohio, farms, some idea could be gained of the extent to which tomato growing for seed is carried on. As is well known, we are situated in the best tomato growing section in this country, but all tomatoes we grow are for seed purposes only and no portion of the crop is ever marketed. When it is considered that each year our tomato seed crop is measured in *tons* and that it *requires* tons of seed to fill orders from growers (not other seedsmen) some idea of the magnitude of the industry can be formed. What has created this industry? Away back in the "Sixties" the founder of this firm, the late Mr. A. W. Livingston was carrying on experiments with a view to producing an edible tomato—one of such form and size and taste as would warrant its introduction to the public. In 1870 the "Paragon" tomato was offered for sale and to-day you can purchase Paragon tomatoes of practically the same form and size as when introduced over forty years ago. The type was fixed and has remained so all these years. In rapid succession followed the introduction of Livingston's "Acme," "Perfection," "Favorite," "Beauty," "Stone," "Globe," each having some particular merit as to size, color, season of ripening, etc., and in all, some twenty-six varieties have been introduced.

Livingston's tomatoes are known all over the world. They are the standard by which other varieties are judged. It has required years of careful study and a vast amount of labor to develop the various types and the work goes on in constant effort to maintain the high standard to which Livingston seeds have attained.



Livingston's Stone

Tomato Facts

Is the title of a unique booklet published by us. It tells all about Livingston's Famous Tomatoes and is illustrated with many halftone reproductions from photographs. It tells how we produced many of the leading standard Tomatoes by years of patient selection and cultivation. Contains many helpful cultural hints and some choice recipes for the thrifty housekeeper. This elegant little booklet is too expensive to give away, but we will pay you to read it. Send 10 cents for it to-day, and we will mail you a copy at once, together with a 10-cent "due bill," which we shall accept the same as cash with any order for at least 50 cents worth of Livingston's "True Blue" Seeds.

Livingston's Stone

The Greatest Canning Tomato in the World

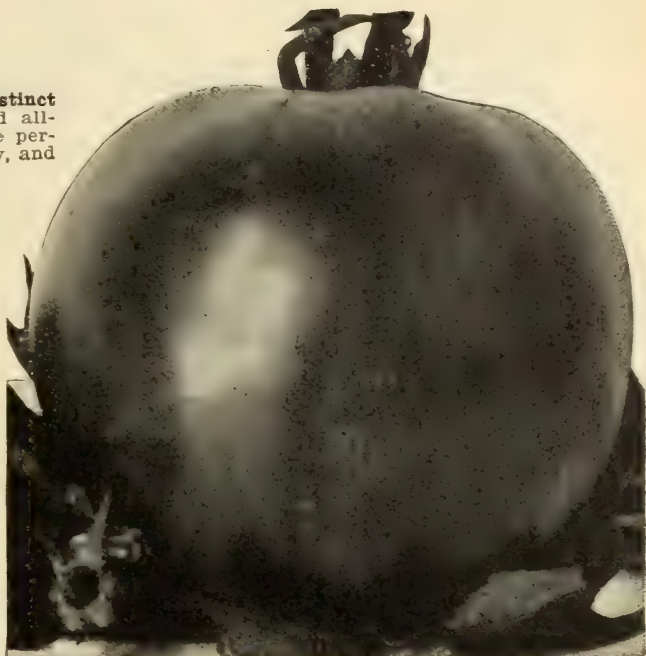
(Introduced by Us in 1889.) The largest, bright red, perfectly smooth, highest yielding, best keeping, finest flavored main-crop variety in existence.

Dealers and planters everywhere recognize the merit of the Stone. It is now twenty-four years since we sent out the Stone. More Stone Tomatoes are grown every year than any other half dozen varieties taken together. We alone supply enough seed to the leading Tomato growers every year to produce 80 million plants. Seed of Livingston's Stone, as grown by us, can only be bought from Livingston's. See Novelty and Specialty Pages. Pkt., 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

Livingston's Globe Tomato

The Greatest Shipping Tomato for the South

The Finest Early Purple Tomato in Existence—Very Distinct in Shape, Firm Fleshed, Blight Proof—Is an extra good all-round sort, of a distinct globe shape, with quite a large percentage of elongated fruits. It is a very beautiful variety, and on account of its shape one that permits of a great number of slices to be made from each fruit. It is early. We class it with the first earlies, both in our greenhouses as well as in our field trials, along with many other varieties. The fruits are of large size, and a good marketable size is retained throughout the season. It is always smooth, of firm flesh, and few seeds; ripens evenly; color, a fine glossy rose, tinged with purple, and without the slightest tinge of yellow at any stage of ripening. It is an exceedingly productive variety, having plants with many short joints, at which large clusters containing three to seven fruits are almost invariably formed, so that it can be truthfully stated the plants are literally loaded with fruit. It is a remarkably good keeper. The fruit is delicious. In quality there is nothing more to be desired, being mild, pleasant and of delicious flavor; unsurpassed for slicing or to eat from the hand. There is no better variety for greenhouse growing or for early growing on stakes or trellises. It is second to none of the purple sorts with which we are acquainted, and we aim to try all promising varieties as they are offered. **Livingston's Globe Tomato** is first-class as a general field cropper. Its blight-proof qualities are remarkable. May be picked quite green, will carry to distant markets in excellent shape and ripen up uniformly to meet quick and profitable sales. **Livingston's Globe** is without doubt the greatest tomato ever offered for the South. Get our seeds and make sure of the "True Globe." Pkt., 10c.; oz., 30c.; ¼ lb., \$1.00; lb., \$3.00.

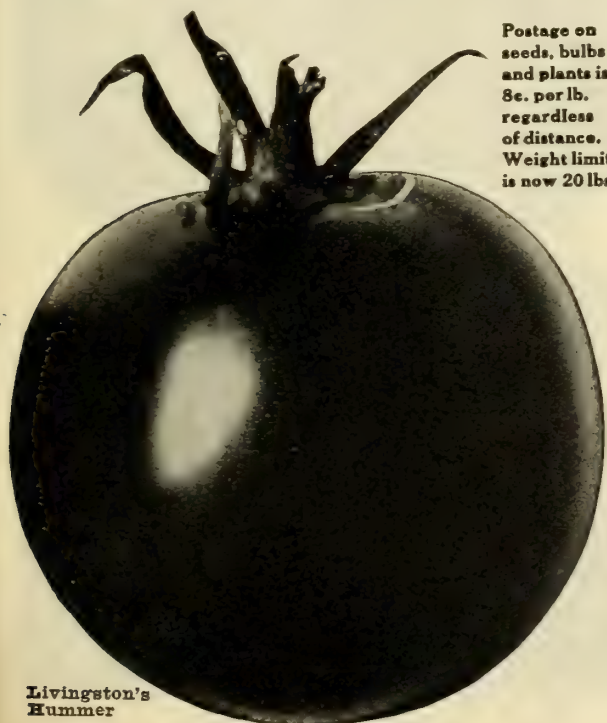


A Specimen Fruit of Livingston's Globe

Let Us Help You!

We want every customer to feel that it is OUR business to help HIS business. Whether this help comes in the form of pedigree seeds or through cultural directions, or through advice given by correspondence—all have the same purpose. Business deals with us must in every case satisfy the customer or we want to know it. "To err is human" and mistakes may happen in spite of all precaution. We consider those, who give us a chance to do the right thing at all times, the true friends of our business.

Postage on seeds, bulbs and plants is 8c. per lb. regardless of distance. Weight limit is now 20 lbs.



Livingston's Hummer

Livingston's Hummer

Introduced by Us in 1907

Livingston's Hummer is round as a ball, smooth as an apple, a good variety for forcing, very prolific, and has very little indenture about the stem end. The color of the fruit is very attractive bright-scarlet. The flesh is a rich crimson-scarlet, and of the very best quality. In size, not so large as Livingston's Stone, but nevertheless a most excellent variety for canners' use, as a large percentage of the fruits can be put into the can whole; quite early; is especially desirable also for canners' use in those latitudes where the crop must be produced in a short time.

It is hard to beat for market and home-garden, especially when grown on stakes or trellises of some kind. It is a healthy, vigorous grower of medium-sized vines. The fruit itself is firm and solid. If picked when "just turning" to ripen, it will carry to a distant market in excellent shape, color up nicely, and meet with ready sales. Pkt., 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

What Customers Think of Livingston's Tomatoes

Harry C. Fuhr, Ohio Co., W. Va., writes (2-23-13): "I had excellent results last year with all your seeds. Had the finest tomatoes in the neighborhood."

Rev. W. H. Burkhardt, Loudoun County, Va., writes (1-23-13): "I bought seed from you direct last year and I had the best tomatoes I have ever raised. As far as tomato seed is concerned, you lead all."

Dr. W. A. Thompson, Bexar Co., Texas, writes (5-10-13): "Tomato plants from LIVINGSTON'S seeds are making a wonderful show here."

John W. Clevenger, Ramsey Co., Minn., writes (5-1-13): "I purchased some seed from you sometime ago which contained some of the 'Hummer' Tomato and the 'Hummer' is sure just what the word calls for."

John E. Vail, Decatur Co., Iowa, writes (1-26-13): "Might say I bought your Coreless Tomato last year; they are the best quality and heaviest yielders I ever grew, and far surpassed all other varieties we had in both respects."

J. C. Gordon, Jackson Co., Mo., (1-25-13) writes: "Your Beauty Tomato is certainly a good kind; tried it last year."

H. E. McKean, R. D. No. 48, Greenville, Pa., writes (July 21, 1913): "The Livingston Globe Tomato Seed I got from you last December is a dandy for the greenhouses. I have sold more tomatoes this June and July than ever before from the same number of plants, and the quality is fine. Your Grand Rapids Lettuce is O.K."

Livingston's
Perfection

Livingston's Perfection

Originated by Us and Introduced in 1880

The demand for a first-class shipping Tomato brought about the introduction of Livingston's Perfection, which may fittingly be described as an improved Acme with red skin. This skin is sufficiently tough and the fruits are so remarkably solid that they may be shipped long distances and are sure to arrive in good condition. It is a medium-sized, smooth, bright red sort of excellent quality. It ripens about ten days before Livingston's Stone, keeps its good size to the end of the season and is excellent for either market or home use. Many canners, especially those who put up the Tomatoes whole, prefer Perfection to all others. Pkt. 10c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

Livingston's Favorite

(Introduced by Us in 1883)—Livingston's Favorite will always be that which its name implies—a favorite with canners and in the home garden. Favorite is one of the best shaped, largest, bright red Tomatoes in existence. The fruit ripens evenly, is always smooth, free from cracks, and holds its size to the end of the season. Flesh is of good flavor, very solid. Pkt., 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

Livingston's Paragon

(Introduced by Us in 1870)—This was the first perfectly smooth, deep red Tomato ever offered to the American people. We have constantly improved upon the original high standard, and there are many gardeners and catsup-makers who to-day, after 40 years, would not have any other kind. It is an immense cropper. In time of ripening it is a medium or early main-crop sort. The fruits are of large size and remain so throughout the season until late in the Fall. Flesh is solid, of superior quality and of appetizing appearance. Pkt., 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

Livingston's Buckeye State

(Introduced by Us in 1893)

The largest Tomato bearing our name. Extra large fruits are borne in clusters of three to six. Buckeye State has a smooth skin of dark purple color. The fruit is very meaty, solid, and the flesh is of most desirable quality. The principal objection to "mammoth" sorts has been their rough and uneven skin. In Livingston's Buckeye State we have been successful in eliminating these weak points, and planters everywhere will appreciate the beautiful large fruits, which are exceedingly showy and find a ready sale. Pkt., 10c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.10; lb., \$4.00.

Livingston's Golden Queen

"Queen of all the Yellows." Its superior flavor has brought it into general favor as a table fruit. It is solid, always smooth, entirely free from ridges, large in size, ripens early. Pkt., 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Livingston's Honor Bright

The distinctive features of this sort are its solidity, long-keeping qualities after being picked and the remarkable changes of color the fruit undergoes during growth and ripening. First, it is light green, then an attractive waxy-white, then lemon-yellow, finally changing to a rich red. When in the white stage they make beautifully transparent and delicious preserves. On account of its solidity and long-keeping qualities, it is especially recommended for shipping long distances. It can be shipped in crates like apples, if picked when in the yellow stage of ripening. Clusters bear 3 to 5 perfect fruits, which ripen very evenly. Flesh is tender and melting. Pkt., 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

Livingston's Coreless

Originated by Us and Introduced in 1908

The Most Perfect Shaped Canning Variety ever Produced. Large Size, Globe Shaped, Full at Stem End. Bright Red, a Strong Grower and a Big Cropper.

All markets requiring a bright-red sort will be pleased with Livingston's Coreless. In shape it is almost round, being of about the same diameter each way. The depression at the stem end has been almost eliminated, making a most profitable variety for canning owing to a very small amount of loss in material and labor. Is immensely productive, clusters of 4 to 7 fruits are produced at six to eight inches apart along the stem. All of the fruits are of marketable size, and many of them are quite large, twelve to fifteen ounces. A grand, good slicing variety, the seed cells being surrounded by bright-red, heavy, meaty and delicious flesh. Its color is that bright, rich red so important to all packers of high-grade goods. Pkt., 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.



Livingston's Coreless Tomato

Livingston's Dwarf Stone

(Introduced by Us in 1902)

The merits of the dwarf-growing sorts are being more and more appreciated, especially by the man who has only a small piece of ground at his disposal. The advent of Dwarf Stone marked a new epoch in Dwarf Tomatoes, for in that sort we bred many desirable characteristics lacking in other dwarfs. The fruits are larger than those of Dwarf Champion and nearly as large as those of our original Stone.

Livingston's Dwarf Stone is prolific—Single fruits often weigh 1 pound and are very meaty and solid. The shape of the fruit is perfect, the skin is free from cracks. The color is bright red. It is an exceedingly "tasty" sort, whether eaten raw from the hand or prepared in any way. You may set the plants of Livingston's Dwarf Stone as close as 18x24 inches and still produce an abundant crop. It is the variety "par excellence" where ground and space are valuable and it has become a great favorite. Pkt., 10c.; ½ oz., 20c.; oz., 30c.; ¼ lb., 85c.; lb., \$3.00.

Livingston's Acme

(Introduced by Us in 1875)

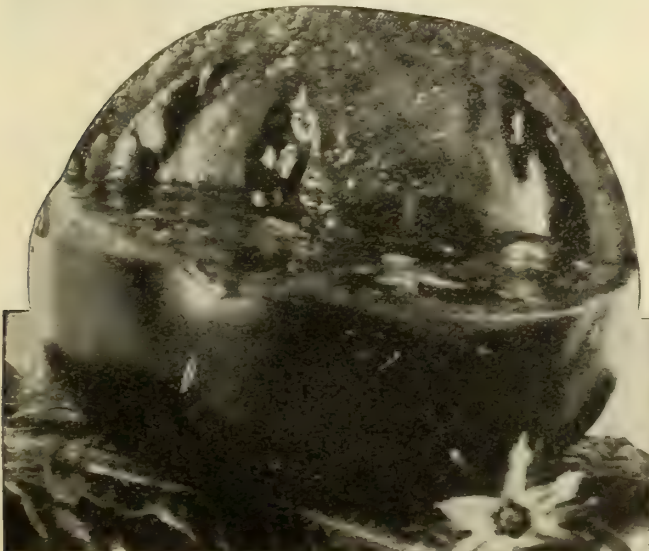
One of the best, earliest purple-fruited Tomatoes. As a shipping sort for growing in Southern States, it is unsurpassed. This was the first perfectly smooth large purple Tomato introduced by the founder of our firm. To-day, after thirty-five years, it is still the leading sort with extensive growers in the South, particularly in Texas. We consider it the smoothest and most uniform, medium-sized, early, purple-fruited sort. It is a very prolific sort. Fruits are produced in clusters of four or five, are large and free from cracks. They are solid and stand long distance shipment to perfection. The quality is fine. Pkt., 10c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

Livingston's Magnus

One of the Finest for Growing on Stakes

Introduced by us in 1900—This distinct variety, of the color of Livingston's Beauty, is perhaps one of the most valuable additions to the Tomato family. It is fully as early, thick, heavy and solid, and one of the most handsome varieties in cultivation. **Livingston's Magnus** is unsurpassed in quality and in the production of fine, large fruits. While well adapted to main-crop planting, it matures so quickly that it also takes first rank for early market purposes. The form is perfect, uniform, large and attractive (see illustration). The flesh is very firm. A robust grower, with short joints, setting its clusters closer together than most varieties, and is a very heavy cropper. It has the broad potato foliage which prevents sunburn in hot sections. The fruits are usually very deep from stem to blossom end, some of them being almost globe shaped. Ripens evenly; does not crack about the stem, and the flavor is all that can be desired. We have tested Livingston's Magnus Tomato for several years for staking up in the open field, as well as for forcing in greenhouses, and we believe it to be entirely unequaled for such purposes. Pkt., 10c.; oz., 30c.; ¼ lb., 85c.; lb., \$3.00.

Livingston's Dwarf Aristocrat—This Tomato in habit of growth and foliage resembles the Dwarf Champion, except in color: a beautiful rich, glossy red. The size, solidity, productiveness, smoothness, flavor of its fruit are all that are to be desired. Pkt., 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.



Livingston's Magnus

Dwarf Stone



Livingston's Beauty

(Introduced by Us in 1886)

Although introduced by us twenty-seven years ago, this is still the greatest of all purple colored market Tomatoes. Hosts of "new" sorts have been brought before the public since, but **not one** has in any sense become a real rival of Livingston's Beauty, although our "Globe" is rapidly gaining in favor among the Southern growers. The plants make a strong growth, are hardy and bear plentifully. The fruit is produced in clusters of four to six, is large, of perfect shape, and retains its size until late in the season. It ripens early, has firm flesh of excellent quality, and the seed cells are very small. For shipping and early market it is excellent. May be picked quite green; will ripen up nicely, look well and keep in perfect condition for a week after becoming fully ripe. Pkt., 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Livingston's Improved Dwarf Champion—Bears fruit fully one-third larger than the original in all kinds of soils. Fruit is produced in clusters of three to five. Of a beautiful glossy purple; firm, solid, thick flesh, with large meaty center. Pkt., 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.25.

Livingston's Potato Leaf—A purple potato-leaved sort. The fruit is smooth, medium size, very firm. A good variety for growing on trellises or tying up to stakes. Pkt., 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

Livingston's Dwarf Purple—Large fruited Dwarf-growing purple Tomato. Smooth and not liable to crack. Flesh solid and thick, with few seeds. Pkt., 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

Livingston's Royal Red—A first-class variety; red and handsome. Desirable for canning and catsup making. Pkt., 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

Livingston's Dwarf Yellow Prince—Introduced by us in 1898—A very choice dwarf-growing Tomato. Very early. Flesh is solid and the flavor is desirable. Of large size and beautiful shape. When sliced with red or purple sorts, it is highly ornamental. Pkt., 10c.; ½ oz., 20c.; oz., 30c.; ¼ lb., 85c.; lb., \$3.00.

Livingston's Gold Ball—Beautiful canary-yellow; flesh thick, fine quality; handsome color; grows in clusters and produces enormous crops. Pkt., 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 80c.; lb., \$2.75.

PACKET PRICES OF LIVINGSTON'S TOMATOES—Regular Size, 10 cents each; 3 for 25 cents, one or more kinds. Smaller Sizes, 5 cents each; 6 for 25 cents, one or more kinds.

Silas Bothermel, Indianapolis, Ind., writes (March 3, 1913): "I must tell you what I did last year with tomatoes after selling over \$100.00 worth of plants. I put my garden (a flat about 50x136 feet) in tomatoes of the Globe, Hummer, Favorite and Early Detroit and some Dwarf Stone and we sold \$64.00 worth of tomatoes and if I would have left out the Detroit and planted Globe or Hummer, I would have gotten \$70.00. Think that was going some."



Chalk's Early Jewel

"Bonny Best"

Of about the same season as Chalk's Jewel, but fruits average somewhat smaller. They are of bright scarlet color, always smooth and of remarkably uniform size and shape. An elegant sort for market and shipping on account of its even size. Well adapted for forcing under glass. Pkt., 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

June Pink

Ripens as early as Spark's Earliana and about ten days earlier than Chalk's Early Jewel. It is an enormous bearer, clusters of six to ten fruits being borne frequently. The fruit is of medium size, uniform, smooth and attractively shaped. It will average 2¾ to 3 inches in diameter and 2 to 2½ inches in depth. The skin is reasonably tough, so that it is excellent for shipping. In color it is a bright, pleasing pink, and in markets where a pink Tomato is desired will bring more in price than any red variety. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

Comet Forcing

A superior variety for forcing under glass. Its color is a rich scarlet-red; the fruits are solid, round and smooth. It is a strong grower and an exceedingly heavy cropper, producing bunches of splendid medium-sized fruits; flavor excellent. Pkt., 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

Chalk's Early Jewel

Within a week to ten days as early as the famous Sparks' Earliana, it is even a heavier cropper, with Tomatoes of larger size and better flavor, while its more robust growth makes it a sure cropper. Large, handsome fruits, very solid, deep through. Color brightest scarlet, ripening right up to the stem without cracks or green core. The foliage is rather open, admitting the sunlight to the center of each plant, so that all the fruits are thoroughly ripened. Flesh thick, bright scarlet, solid, and of sweet flavor; a good shipper. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Early Hustler (Perfected Earliana)

(See illustration, page 69)

One of the earliest smooth, bright red Tomatoes of good size. Earliana, as first sent out, was inclined to be rough about the stem end. Early Hustler is smooth all over and, under favorable circumstances, will prove a few days earlier than the common strain of Earliana. Our customers will be anxious to try this new sort which we recommend as one of the earliest, smoothest bright red market tomatoes we know. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

Sparks' Earliana

This variety was developed in the warm, light soil of New Jersey, where effort is made to market Tomatoes at the earliest possible date. It is a very early variety of good size, bright red color and the habit of growth is compact. The plants set fruit very freely. In some sections this variety is planted largely for shipping. Our strain is a great improvement over original stock. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

Livingston's Princess—Similar to Livingston's Multi-color except in color, which is a fine glossy purple. Pkt., 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.

Livingston's Grandus—A Purple-Fruited Livingston's Honor Bright Tomato. The fruit is fully equal to the Livingston Beauty, being much the same in color and size; very solid. Pkt., 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.

Livingston's Royal Colors—Beautiful green and purple fruit; golden potato-leaved foliage; dwarf; very stocky and robust. Pkt., 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.



Warning



We do not sell Tomato seeds to dealers in bulk. All our Tomato seed is put up in packages bearing our registered "True Blue" seal. When you walk into a store and see Livingston's Stone, Livingston's Globe, Livingston's Beauty, etc., displayed on the counter in a bag without our blue seal, the packet does not contain Livingston's Tomato seed. Every year we receive complaints that seeds bought at stores do not turn out as well as what we supplied.

The reason: Livingston's Tomato seeds can only be bought from us direct or from reliable dealers who handle our seeds in original bags with the "True Blue" seal.



Golden Queen. Pkt., 10c. See Page 66

Early
Hustler



Matchless

A fine, smooth main crop tomato, of rich cardinal red color, with solid flesh of finest quality. Grows to good size which it maintains throughout the season. Somewhat similar to Livingston's Stone. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

Trucker's Favorite

(See illustration below)

A purple fruited sort of excellent quality, highly esteemed in many Eastern and Southern markets. Grows to uniformly large size which is maintained until late Fall. Fruits are invariably smooth, solid and the flesh is of finest color throughout. Unexcelled for slicing or cooking. Plants are very thrifty, free from rust or blight and bear continually until killed by frost. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.25.

Ponderosa

The fruit ripens early and bears well until very late; very solid, almost seedless, of good sub-acid flavor and of immense size, frequently weighing considerably more than 2 pounds. Somewhat scattered on the vine, and a small percentage are rather rough. Our strain, however, is now producing a much smoother fruit than when first introduced. Good Tomato for home use; splendid slicer. Pkt., 5c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.10; lb., \$4.00.

"Dwarf Giant"

A new dwarf sort of good size and various other unique characteristics. It is very prolific, producing fruits in clusters around the base of the plant. Tomatoes are smooth and of regular size and shape. Of the same color as Ponderosa—the originator calls it a "Dwarf Ponderosa." Pkt., 10c.; ½ oz., 25c.; oz., 40c.; ¼ lb., \$1.25.

Enormous

Size very large, about same as Livingston's Buckeye State; smooth, but apt to crack about the stem end; few seeds, and of fair quality when grown on good soil. Pkt., 10c.; ½ oz., 20c.; oz., 35c.

Early Detroit

A good large, early purple sort. Fruits average 3¼ inches in diameter, are thick through and solid. A very prolific sort. Pkt., 5c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.00.

Success

Resembles our Livingston's Stone Tomato very much, but of smaller size. A good red, smooth, solid and productive sort. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

Atlantic Prize

Very early, bright red, medium size. Pkt., 5c.; oz., 25c.; ¼ lb., 70c.; lb., \$2.25.

Small Fruited Tomatoes

Excellent for Preserves, Pickles and Pies

- | | |
|--------------------------|-----------------------------|
| Red Currant—Pkt., 5c. | Red Cherry—Pkt., 5c. |
| Red Pear-Shape—Pkt., 5c. | Yellow Plum—Pkt., 5c. |
| Yellow Cherry—Pkt., 5c. | Yellow Pear-Shape—Pkt., 5c. |

Prices of above Small-Fruited Tomatoes—½ oz., 20c.; oz., 30c.; ¼ lb., 85c.; lb., \$3.00.

Mixed Small Tomatoes—Above 6 sorts. Pkt., 10c.

Odd Tomatoes

Purple Peach—This variety resembles some peaches so closely in size, shape and general appearance that at a short distance away it is frequently taken for a peach. Color purple, blended with orange-amber; very productive. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 80c.

Yellow Peach—Differs from the Purple Peach in color only, being a rich golden yellow. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 80c.

Strawberry (Winter Cherry, or Husk Tomato)—This delicate husk-enveloped Tomato is unequalled for making preserves and pies. Have a strawberry flavor and are very productive. We offer the following two sorts:

Golden Husk—Fruit a handsome golden color, the size of large cherries. Pkt., 5c.; ½ oz., 20c.; oz., 30c.; ¼ lb., \$1.00.

Purple-Husk—This beautiful sort produces abundantly; 1 to 2 inches in diameter. Pkt., 5c.; ½ oz., 15c.; oz., 30c.

Trucker's
Favorite





Vegetable Plants

Artichoke Roots

The Jerusalem Artichoke can be grown only from the tubers. It is especially valuable as a cheap and healthful hog food, and the hogs do the harvesting. **Tubers**—4 oz., 10c.; lb., 30c.; 3 lbs., 75c., postpaid. By express or freight: Pk., 60c.; ½ bu., \$1.00; bu. (50 lbs.), \$1.75; bbl. of 2 bus., \$4.50. 3 to 5 bushels of tubers for an acre.

Asparagus Roots

Fiantas o raices de Esparragos

Spargelwurzeln

We have for many years been making a great specialty of Asparagus Roots at our True Blue Seed Farms. Our splendid soil, together with the finest strains of seed obtainable, of the various standard varieties, places us in a position to produce enormous quantities of Asparagus Roots of the very best quality. You will find listed below the most approved sorts in cultivation. Kindly note our especially favorable prices.

500 Asparagus Roots at 1,000 rates. Special prices quoted by letter on larger quantities.

	By Mail,	Post-paid.	By Express Not Prepaid.	
	Doz.	100	100	1000
Carolina Queen	40c	\$2 00	\$1 00	\$8 50
Conover's Colossal	30c	1 15	65	5 00
Columbian Mammoth White..	35c	1 25	75	5 50
Early Argenteuil.....	35c	1 25	75	6 00
Palmetto.....	35c	1 25	75	5 50

50 at the 100 rate, 500 at the 1000 rate. Special Prices Quoted on Larger Quantities.

Horse Radish Sets

Nuremberg

From Bavaria comes a variety of Horse Radish which has a great many points of superiority. By selection and most careful cultivation only, the Nuremberg Horse Radish has reached a point where individual roots 18 inches long by 2½ to 3 inches at the thickest part are produced from the growth of one year. In fact, its shape is like a parsnip. The quality is splendid; crisp, and of very fine flavor. The color is a beautiful pearl-white.

Roots ready for planting—By mail, postpaid, 6 for 15c.; doz., 25c.; 50 for 75c.; 100 for \$1.35. By express, 500 for \$4.00; 1000 for \$7.50.

Common Horse Radish

Roots ready for planting—By mail, postpaid, each, 5c.; doz., 25c.; 50 for 60c.; 100 for 90c. By express, not paid, 100 for 75c.; 300 for \$1.80; 500 for \$2.50; 1000 for \$4.50. Prices on large lots on application.

Rhubarb Roots

We offer strong seedling roots, which are much more easily transplanted, do better, and the transportation charges are less than with old clumps. **Never have we had a better lot of roots, or had them in greater quantities. Should you need a large quantity of roots, write us, please, before placing your order elsewhere.**

By mail, postpaid, each, 20c.; 2 for 30c.; 4 for 50c. By express, not paid, each, 10c.; 10 for 65c.; 50 for \$2.50; 100 for \$4.00; 1000 for \$30.00.

Two-year-old roots, each, 15c.; 12 for \$1.50; 100 for \$8.00; 1000 for \$75.00. By express or freight at buyer's expense.

Garlic Sets

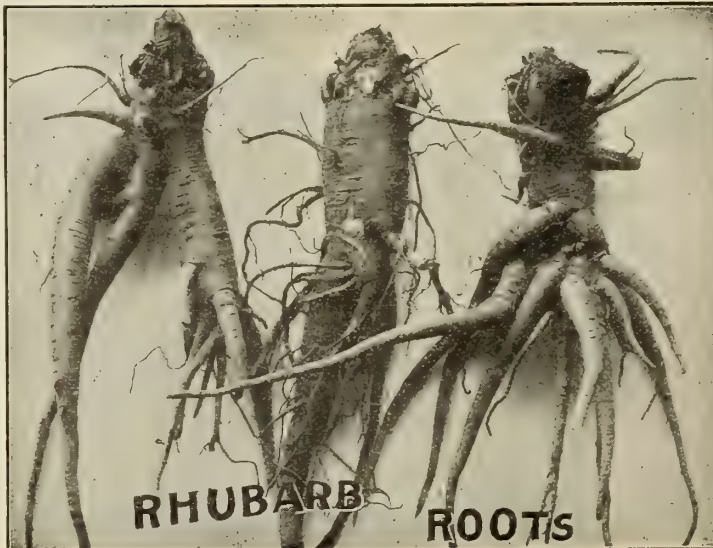
Garlic Sets or Bulbs are planted in early Spring in rows 12 in. apart, placing the sets 4 inches apart in the rows, 2 inches deep, or in the same manner as Multiplier Onions. Garlic is used for flavoring purposes.

Bulbs, postpaid, oz., 5c.; ¼ lb., 15c.; lb., 50c.

NOTICE

Parcel Post Rulings have not affected the old rate of 1c. for two ounces or 8c. per lb. on seeds, plants and bulbs regardless of distance.

The weight limit has been changed to 20 lbs.



Mrs. Flo Carrick, Seneca Co., O., writes: "I have more and better Tomatoes since using Livingston's Seeds than ever before."

C. C. Brown, Chestertown, Md., writes (3-1-13): "I used your Livingston's Stone Tomato Seed last season with very satisfactory results."

Mrs. C. F. Kirkpatrick, Potomac, Illinois, writes (3-18-13): "I got first premiums on your Prize Taker Onions and Livingston Late Flat Dutch Cabbage at Potomac and Henning fair last Fall, and they were fine Onions and Cabbage. I sold Cabbage, Onions and Tomatoes and all the people that saw them said they were the finest vegetables they ever saw. I like your garden seeds fine."

Livingston's Re-Cleaned Grass and Clover Seeds

Our Grass and Clover Seeds are selected with special reference to their quality. Purchasers may rely upon our best exertions to furnish them with these vitally important qualities—fresh, pure and free from noxious weeds and foreign seeds. Prices on Grass and Clover Seeds are changing almost daily, **AND WE CAN ONLY GIVE PRICES SUBJECT TO FLUCTUATIONS.** No charge for bags at prices quoted below; do not forget this important item when comparing our prices with others. Our single pound prices include postage paid by us. Deduct 10 cents per pound from single pound prices if to be sent with other goods by express or freight. Those wanting seeds in larger quantities should **WRITE US FOR SPECIAL RATES.**

Best Grasses

Awnless Brome Grass (*Bromus inermis*)—Will stand long droughts and still produce heavy crops in dry sections where other grasses would surely perish. Has also proven itself one of the hardiest grasses. Especially desirable for permanent pastures. Succeeds in a wider range of temperature than any other grass. Sow from 25 to 30 pounds per acre. (Bu., 14 lbs.) Lb., 30c.; 10 lbs., \$2.00; 100 lbs., \$17.00.

Creeping Bent Grass (*Agrostis stolonifera*)—Excellent for pasture when mixed with other grasses. Succeeds well in most sections and thrives in moist land. Sow 40 lbs. per acre. (Bu., 14 lbs.) Lb., 40c.; 10 lbs., \$3.50; 100 lbs., \$28.00.

Crested Dog's Tail (*Cynosurus cristatus*)—May be sown on lawns; forms a close turf, remaining green a long time valuable for sheep pasture; succeeds on dry, hard, and gravelly soil. Height 1 to 1½ feet. Sow 25 lbs. per acre. (Bu., 21 lbs.) Lb., 40c.; 10 lbs., \$3.00; 100 lbs., \$25.00.

Hard Fescue (*Festuca duriuscula*)—Not very productive, but is of very fine quality; thrives in dry situations where many other grasses would fail, thus making it desirable for pasture. Sow 30 lbs. per acre. (Bu., about 12 lbs.) Lb., 30c.; 10 lbs., \$2.50; 100 lbs., \$20.00.

Kentucky Blue Grass, June Grass (*Poa pratensis*)—Universally known; desirable for pastures and lawns. Sow in Fall or Spring at rate of 30 to 40 lbs. per acre. (Bu., 14 lbs.) **Export Fancy Clean Seed**—Lb., 30c.; 10 lbs., \$1.75; 100 lbs., \$15.00.

Meadow Fescue (*Festuca pratensis*)—Thrives in all soils; excellent for permanent pastures; starts early; productive. Sow 25 to 35 lbs. per acre. (Bu., 24 lbs.) Lb., 30c.; 10 lbs., \$2.50; 100 lbs., \$20.00.

Orchard Grass (*Dactylis glomerata*)—Extremely hardy and widely known. One of the earliest to start in the Spring; grows rapidly; furnishes an abundance of pasture the entire season. Sow 20 to 30 lbs. per acre. (Bu., 14 lbs.) Lb., 30c.; 10 lbs., \$2.00; 100 lbs., \$17.00.

Perennial Rye Grass (*Lolium perenne*)—Very nutritious; valuable for meadows or permanent pastures; rapid grower. Sow 25 to 35 lbs. per acre. (Bu., 24 lbs.) Lb., 25c.; 10 lbs., \$1.00; 100 lbs., \$8.50.

Red Top Grass (*Agrostis vulgaris*)—Thrives well in any soil, but best on low land; produces a firm sod. Sow 15 to 20 lbs. per acre. (Bu., 14 lbs.) **Fancy Clean**—Lb., 40c.; 10 lbs., \$3.00; 100 lbs., \$26.00.

Rhode Island Bent Grass (*Agrostis canina*)—Valuable for lawns. Sow 35 to 50 lbs. per acre for lawns, 20 to 30 lbs. for pasture. (Bu., 12 lbs.) Lb., 40c.; 10 lbs., \$3.50; 100 lbs., \$29.00.

Sweet Vernal (*Anthoxanthum odoratum*)—Very fragrant. Mixed with other grasses for pasture it is quite valuable, as it starts early in the Spring and grows until late in the Fall. Sow 35 lbs. per acre. (Bu., 10 lbs.) Lb., 65c.; 10 lbs., \$5.00.

Sheep's Fescue (*Festuca ovina*)—Grows naturally on light, dry, sandy soils and mountain pastures; considered valuable mixed with other grasses for permanent early Spring pasture. Sow 15 lbs. per acre. (Bu., about 12 lbs.) Lb., 30c.; 10 lbs., \$2.50; 100 lbs., \$20.00.

Tall Meadow Oat Grass (*Avena elatior*)—Used for soil-ing. Succeeds well in sandy lands, and owing to its long fibrous roots, stands cold and drought well. Sow 2½ to 30 lbs. per acre. (Bu., 10 lbs.) Lb., 30c.; 10 lbs., \$2.50; 100 lbs., \$20.00.

Timothy (*Phleum pratense*)—A well-known variety. When ready to buy, write us for latest prices, whether you want a bag or a carload. Sow 8 lbs. per acre. (Bu., 45 lbs.)

Prime SeedLb., 30c.; 10 lbs., \$1.00; 100 lbs., \$7.50
Choice SeedLb., 30c.; 10 lbs., \$1.10; 100 lbs., \$8.50

Wood Meadow Grass (*Poa nemoralis*)—Adapted for pasture or pleasure grounds; of early growth; thrives under trees. Sow 25 to 30 lbs. per acre. (Bu., 14 lbs.) Lb., 55c.; 10 lbs., \$4.40; 100 lbs., \$35.00.

Mixed Grasses

For meadows and Permanent Pastures—We are prepared to furnish seeds adapted to all soils, all situations and all purposes—for light, medium, and heavy soils. By light soils we mean that which is more or less of a sandy or gravelly nature; the heavy, clay and heavy loams, while the medium is an intermediate between these two. A light, wet soil, with respect to grasses suited to it, may be considered same as too heavy soils; a dry, heavy soil more as the light soils. Write us what you want, giving nature of soil, number of acres, etc., and we will, with pleasure, give you estimate and terms.



Timothy



NOTE: With us quality is first consideration. Cheap lawn grass cannot be of "True Blue" quality.

Livingston's Capitol Lawn Grass Seed

Contains only the highest grade of grasses suitable for the purpose of making a beautiful, durable, lasting lawn. Our Capitol Lawn Grass Seed germinates quickly, roots deeply. This enables it to readily withstand the intense heat of Summer and the hard cold of Winter, showing a beautiful, rich green from snow to snow. It contains no annual grasses for making a quick show, to the detriment of a permanent lawn, but has only those which are lasting and hardy. When a lawn is once established from our seed, it lasts for years. We have made the formation of lawns a careful study, and many of the finest lawns and grass plots all over the United States were made from **Livingston's Capitol Lawn Grass Seed**. For a perfect and enduring lawn of closely interwoven, firm, elastic turf, which will flourish under varied conditions of soil and climate and show a luxuriant, rich green growth throughout the year, plant **Livingston's Capitol Lawn Grass Seed**.

Quantities to Use—One lb. for 400 sq. ft.; 5 lbs. for 2000 sq. ft.; 10 lbs. for 4000 sq. ft.; 25 lbs. for 10,890 sq. ft. ($\frac{1}{4}$ acre); 34 lbs. for 14,550 sq. ft. (1-3 acre); 50 lbs. for 21,780 sq. ft. ($\frac{1}{2}$ acre); 100 lbs. for 43,560 sq. ft. (1 acre).
For Renewing Old Lawns—Use about one-half the quantity given in above directions.

Capitol Lawn Grass Seed is the cheapest as well as the best lawn grass seed offered. While 14 lbs. of lawn grass seed is usually considered a bushel, this will weigh 20 lbs. to the bushel. We sell by the pound instead of quart. This method of selling is very much to the advantage of the purchaser, as a pound of grass seed measures over $1\frac{1}{2}$ quarts.

PRICE—First Quality, per lb., 45c.; 2 lbs., 85c., postpaid.
 1 bu., \$5.00; 5 bu., \$23.75. Deduct 10c. from lb. prices if to be sent by Express or Freight.

PRICE—Second Quality, per lb., 40c.; 2 lbs., 75c., postpaid.
 1 bu., \$4.75; 5 bu., \$22.50. Deduct 10c. from lb. prices if to be sent by Express or Freight.

How to Make a Lawn.—The preparation of the soil is very important in making a good lawn. As early as possible in the Spring it should be thoroughly dug or ploughed to the depth of 10 or 12 inches and properly graded to the desired level. Remove all stones, sticks, sods, etc., harrow or rake it fine and roll it firm. It is impossible to get the soil too fine to receive the seed. After rolling the soil will be ready for the seed. If the soil is poor, wood ashes, bone meal or pulverized sheep manure should be added after digging it up. Well-rotted stable manure is also good, but it often contains weed seeds. **Sow the best seed obtainable;** it is always cheapest in the end; use quantity as indicated by table on this page. It is best to sow seed liberally, not only so as to produce a lawn quickly, but because the best lawn seed produces fine-leaved grasses which should take entire possession of the ground at once, thus choking out and preventing the development of any weed seeds, which are apt to be in all soils. Sow seed by hand, distributing it evenly, going both ways across the plot. After sowing, cover the seed by raking lightly; then roll. When the grass has become well rooted, use lawn mower. Keep the mower sharp, as if dull it will pull and injure the grass, besides causing the lawn to have an uneven appearance. Never allow the grass to become so high that the mower will take off the first joint, as this is an injury. Mow as often as necessary; in growing weather at least once a week. Let the short clippings remain on the lawn, as they wither and dry and form a protection to the roots. When the clippings are long, they should be raked off, for, besides being unsightly, they are also injurious. When dry and hot, avoid cutting too close.

To Grass a Terrace.—Take for each square rod a pound of lawn grass seed, and mix it with about six cubic feet of good dry garden loam. Place it in a tub and add liquid manure, diluted with about two-thirds water until the mixture has the consistency of mortar. Make the slope even and smooth, water it well, then apply a thin, even coat of mixture.

Shady Place Mixture

On nearly all lawns there are shaded, bare and unsightly spots on which the owners have difficulty in getting a stand of grass. For such places this mixture is adapted. It is composed of grasses which naturally grow in shaded places. They are the finest and most costly of all grasses. If the soil is covered with moss or seems "sour" and out of condition, rake off the surface and apply slaked lime at the rate of one bushel to 1000 square feet. This will sweeten the soil. Then dig and prepare the lawn as directed above. Prices: Lb., 55c.; 3 lbs., \$1.50, postpaid. Bu., \$7.00. Deduct 10 cents per pound from pound prices if to be sent by Express or Freight.

Golf Links Mixture

We make a mixture of grasses suitable to the purposes of the golf links, so it will stand rough usage. We can also prescribe for links located on poor or rich, dry or wet soils, telling which grass will best suit each location. **Write us, stating your requirements.**

Tennis Court Mixture

A mixture composed of low-growing hardy grasses suitable for ground of this character. Price: Lb., 55c.; 3 lbs., \$1.50, postpaid. Bu., \$7.00. Deduct 10 cents per pound from pound prices if to be sent by Express or Freight.

Kentucky Blue Grass is offered on page 71.

Special Quotations.—We are always pleased to quote special prices to Parks, Institutions, Golf Clubs and others who require Lawn Grass Seeds in large quantities.

Prices of all Grass and Clover Seeds are subject to market changes.

All Prices of Grass, Clover and Field Seeds are Subject to Market Changes



Livingston's Re-Cleaned Clover Seeds

Parties wishing large quantities will do well to get samples and prices before placing their orders. We handle it on a close margin and supply the finest grades. It is impossible to tell how low our prices are without seeing samples, which will be sent free on application. A bushel of clover seed is 60 pounds. Deduct 10 cents per pound from single pound prices, if to go by express or freight at purchaser's expense.

Alfalfa, or Lucerne (*Medicago sativa*)

Alfalfa is being more generally grown as experience is teaching our farmers the proper soils on which it should be sown. It requires cutting at least twice the first season, even if not large enough to make hay. Cutting destroys any weeds that may come up in it, and gives the Alfalfa a chance. Must be sown at the rate of 15 to 20 pounds per acre when sown broadcast. It requires well-drained, well-pulverized, deep soil, and should be sown after danger of freezing is over. It prefers sand or gravel subsoil; wet soil is fatal to the plant. Roots from 3 to 15 feet deep, and when established lasts for years, and two or three crops a year can be cut. Not recommended for pasture. We make a specialty of extra choice seed-stock that stands well above 99 per cent. pure. Get our prices and samples before ordering and ask for circular on growing Alfalfa; it will prove interesting. Lb., 35c., postpaid; by express or freight, 10 lbs., \$2.50; 100 lbs., \$20.00.

Sweet Clover, or Bokhara

A variety of Clover that resembles Alfalfa both as to appearance and habit of growth when young. It grows much larger than Alfalfa—often 4 to 6 feet high. It makes a very vigorous growth and is much used to plow under as a green manure. Is valuable in the bringing up of old waste and worn-out soils, and thrives well even on extremely poor soil. If plowed under it adds humus and nitrogen to the soil, or if simply left to grow up and drop back for a few years the decaying stalks and roots will do wonders for the land.

Its greatest value other than a fertilizer is in preparing the soil for Alfalfa as the bacteria of Sweet Clover is the same as that of Alfalfa. Sweet Clover will thrive on all classes of soil and will inoculate land otherwise too poor to establish Alfalfa. It is also largely used for bee pasture, its small white flowers yielding much honey. Sow from April 1st to Sept. 15th, with or without nurse crops, at the rate of 15 to 25 lbs. per acre. Lb., 40c., postpaid. 10 lbs., \$3.00; 100 lbs., \$28.00.

Mammoth Clover—Valuable with other grasses for mixed hay. Ripens about with Timothy. Being a rank grower, it is used largely for plowing under. Sow 10 lbs. per acre. Lb., 35c., postpaid; 10 lbs., \$2.50; 100 lbs., \$20.00.

Alsike, or Hybrid (Swedish)—Hardest of all clovers. On rich, moist soil, yields large quantities of hay or pasture. Will thrive in soils which are so wet that the common Red Clover would not live. Unlike some of the other clovers, which have tap roots, Alsike has many fibrous roots, hence is not injured by freezing and thawing of the ground. Esteemed highly by beekeepers. Sow 5 lbs. per acre. Lb., 45c., postpaid; 10 lbs., \$3.00; 100 lbs., \$27.00.

Medium, or Common Red—The most important and valuable of the Clover family. Makes the best of hay. Sow 10 lbs. per acre. Lb., 35c., postpaid; 10 lbs., \$2.50; 100 lbs., \$20.00.

Crimson Clover

Should be sown in July, August and September of each year. Can be sown with corn, or any cultivated crop. Sow 10 to 15 lbs., per acre. Cover lightly. Use only American grown seed. The Spring following it can be cut for soiling May 1st; for ensilage, May 1 to 15; for seed about third week in June. Lb., 30c., postpaid; 10 lbs., \$1.30; 100 lbs., \$11.00.

White Dutch Clover

Good in permanent pastures, especially for cattle; valuable for bees, and the best variety for lawns. Sow in Spring at the rate of 5 lbs. per acre when sown alone; ½ the quantity when sown with other grasses. Lb., 50c., postpaid; 10 lbs., \$4.00; 100 lbs., \$38.00.

Millets (German or Golden)

True Southern Grown—Far superior to Western grown. Will grow in any climate or soil, and make a large yield of most nutritious feed. Prepare the ground well before sowing; sow not less than 50 pounds per acre at any time between May 1st and June 15th. Cover with a single stroke of a light harrow, or roll without harrowing, or it may be sown with a wheat drill, barely covering the seed. Cut the crop while in bloom, before the seed hardens. (Bu., 50 lbs.) Lb., 20c.; 10 lbs., 50c.; 100 lbs., \$4.00.

German, Western Grown, at the market price.

Hungarian Millet (Grass)—A valuable forage plant of the Millet family, but not so coarse. Sown and cultivated same as Millet. (Bu., 48 lbs.) Lb., 40c.; 10 lbs., 45c.; 100 lbs., \$3.50.



In a "True Blue" Alfalfa Field.

Livingston's Finest Grain Seeds

Prices Subject to
Market
Fluctuations

Selected Seed Oats

We have always realized the importance of supplying growers with the best selected Seed Oats, and we can truly say that our efforts in this direction have resulted in our customers obtaining increased yields by sowing our superior stocks. Our crop of seed Oats this past season was quite good and our stocks are fine.

Regenerated Swedish Selected Oats

(See illustration.)—Originated and introduced by Garton Seed Co., of England, are now well acclimated and have given excellent satisfaction. Weighs from 32 to 40 lbs. per measured bushel. The straw is heavy and strong and not liable to lodge. Heads are large, upright and bushy. Grains are white, large, thick and plump with thin hull, making a very fine appearance and very desirable for feeding. Their strong root development enables them to withstand drought better than many varieties; are quite early and less liable to damage by rust than many sorts.

Price—Postpaid, $\frac{1}{2}$ lb., 15c.; lb., 25c. By express or freight not paid: Pk., 30c.; $\frac{1}{2}$ bu., 60c.; bu (32 lbs.), \$1.00; 2 bu., \$1.90; 5 bu. or more, 90c. per bu.

Silver Mine Oats

(See illustration)—Many farmers will plant no other sort as they offer all desirable points: Large, plump, white grain, and good straw. Medium early and good yielder. Postpaid, lb., 25c.; 3 lbs., 60c. By express or freight, pk., 30c.; bu. (32 lbs.), \$1.00; 5 bu., \$4.75; 10 bu., \$9.00. Bags free.

American Banner Oats

Yields large crop. Grains large, white, plump; early; stiff straw of good length. Postpaid, lb., 25c.; 3 lbs., 60c. By express or freight, pk., 30c.; bu. (32 lbs.), \$1.00; 5 bu., \$4.75; 10 bu., \$9.00. Bags free.

Write us for **SPECIAL PRICES** on larger quantities of Seed Oats.

Spring Wheat

(60 lbs. to bushel.)

Marquis (New)—Is similar to Red Fife; quite early; beardless; yellow chaff, very plump flinty kernel; said to be one of the best. Postpaid, lb., 20c. By express or freight, pk., 70c.; bu., \$2.40.

Blue Stem—A very popular variety in the Northwest. Heads are large and well-filled; stools freely; kernels very hard. Postpaid, lb., 20c. By express or freight, pk., 60c.; bu., \$2.25.

Spring Rye

Write for samples and prices.

Barley

(48 lbs. to bushel)

Beardless—Barley needs a rich land, more sandy and lighter than that adapted to Wheat. It is sown in the Spring and can be grown farther North than any other grain. It should be cut before fully ripe (unless intended for seed), as it is then of better quality and less liable to shell. Use about 2 bushels per acre. Lb., 25c.; 3 lbs., 65c., postpaid. Pk., 45c.; bu., \$1.50; 10 bu., \$14.50.

Speltz or Emmer (40 lbs. to bushel)

A valuable grain recently introduced from Russia. It is adapted to dry sections and poor soils, often yielding 50 bushels or more of grain per acre. The straw and grain of Speltz have feeding value equal to barley and are relished by all kinds of stock. Sow in the Spring, 50 lbs., per acre. Large pkt., 10c.; lb., 25c.; 3 lbs., 60c., postpaid; 10 lbs., 50c.; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.00.



Regenerated Swedish Oats



Silver Mine Oats

Livingston's Thoroughbred Field Corn Seed

Prices of All Farm Seeds quoted in this Catalogue are subject to market changes. The prices given are those ruling at the time this Catalogue is published, January 1st. But we reserve the right to change prices without notice.

One bushel of Field Corn Seed will plant from five and one-half to seven acres, according to variety and whether the hill or drill method of planting is followed. Livingston's Thoroughbred Field Corn Seed only costs you 30 to 40 cents for sufficient seed to plant an acre. We earnestly urge you to plant the best Field Corn Seed that our many years of experience has been able to produce. Our strains are pure.

Situated, as we are, in the very best territory in this country as regards both soil and climate, for growing and perfecting Field Corn, we would impress upon you the fact that our facilities and opportunities for securing and supplying the most thoroughbred strains of Field Corn are not exceeded by any seed firm.

All our Field Corn Seed is well matured, thoroughly cured, and shelled with the greatest care, so that the germ shall not be injured. We test all varieties before sending the seed to our customers, that there may be no doubt as to the perfect vitality. If our strains of Field Corn Seed are properly planted and the conditions are favorable, there can be no question but that a most satisfactory yield of Corn will be the final result. **To avoid delay when ordering late in the season, it would be well for you to mention your second choice, or state whether we shall send you a sort adapted to your locality, or refund the money, provided we are sold out of your first choice when your order arrives. Field Corn Seed on the ear can only be supplied while our present stock lasts.**

Our Grand New Field Corn Kilbury's Yellow Hybrid

**A NEW AND VERY DESIRABLE VARIETY. EARLIEST
LARGE-EARED CORN IN CULTIVATION. HAND-
SOME, UNIFORM EAB. DEEP GRAINS.**

This splendid Corn is one of the most valuable new varieties which has come under our notice for a long time. (See illustration.) The following is originator's description: "Kilbury's Yellow Hybrid Corn is deep in color, with red cob which tapers uniformly from butt to tip, with deep grains well compacted on cob. Ears large, from 9 to 12 inches in length. Fodder large; ears 3½ to 5 feet from ground, husks easy, does not fall off in handling. The earliest large Corn on the market. Plant any time in May; it has matured planted as late as June 15th. This Corn has been successfully grown for eighteen (18) years on black loam and clay soils, and is well adapted to both."

When we offered Kilbury's Yellow Hybrid for the first time we added the following to the originator's description: "After careful examination of this Corn, both growing in fields and after being harvested, we believe it to be all that Mr. Kilbury claims. It is the result of careful selection from hybrids of Leaming and Clarage, but is much larger than either of the parents, with deep kernels which are well and evenly dented. It is a large, medium early Corn; safe to plant in localities no colder than Ohio." If you want the **earliest big-eared** Corn grown, with large, heavy, deep grains and small cob, a yellow corn, plant **Kilbury's Yellow Hybrid.** For prices see below.

Neller's Cattle Corn

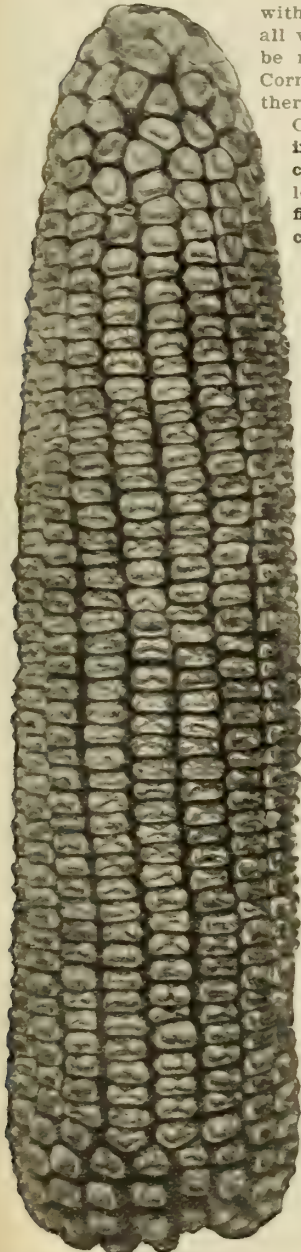
This very desirable strain of Corn was brought into Licking county, Ohio, from an adjoining county some thirty or more years ago by a local cattle breeder, and as it seemed to be especially well adapted to cattle feeding, has become quite a favorite where known.

Our attention was directed to this variety some time since and two years ago we introduced it to our trade through our retail store. Reports up to this date (October, 1913) being especially satisfactory, we feel warranted in giving it a place in our Catalog.

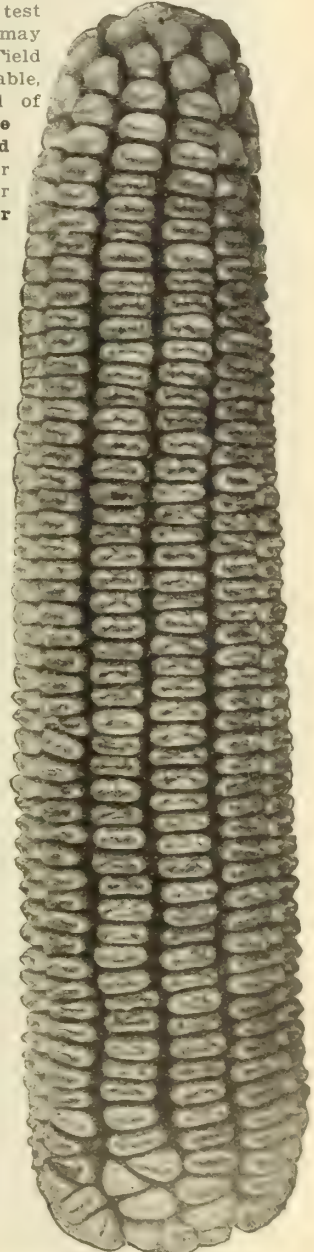
The Corn is a good, clear yellow in color, has deep, well-formed kernels, well dented but not chaffy, set on a small, dark red cob; ears have 14 to 18 rows and are often 12 inches long and well grained over the ends; fodder about an average in size and leafage.

In this locality will ripen in 90 to 100 days.

PRICES FOR EITHER OF THE ABOVE—Sample ear, 30c.; large pkt., 10c.; qt., 40c. postpaid. By express or freight, purchaser paying transportation charges: ½ pk., 50c.; pk., 85c.; ½ bu., \$1.50; bu., \$2.75; 5 bu., \$13.00. 6 Select ears, 60c.; bu. (68 lbs.) of ears, \$3.25.



Kilbury's Yellow Hybrid
(Two-thirds natural size)



Neller's Cattle Corn
(Two-thirds natural size)

Livingston's Golden Surprise Field Corn

The Large Amount of Corn Produced on Such Small Cobs Surprises Everyone. Entirely Distinct. Stalks Short and Strong. Ripens in 90 to 100 Days. Ears Medium Size. Deep Grained. Small Cob. A Great Feeding Corn.

A variety of great merit offered and named by us in 1898, and, as anticipated, it has met with great favor wherever it has been thoroughly tested. Our description of Golden Surprise Field Corn consists of plain statements and simple facts.

Our illustration is from a photograph and will give you a very accurate idea of the ears. The cob is small. The Corn, as a whole, is indicative of its name, and is indeed a **genuine surprise** to all who grow it. Beautiful in its rich golden color and even size from butt to tip of the ear. **Profitable** in its depth of grain and small per cent. of waste in cob. **Convenient** in its short fodder growth and easy break of ear from the stalk. **Certain** in its early maturity, and, all points considered, the **best early Corn up to date.**

Golden Surprise was not offered to the general public until after ten years and more of the closest and most critical observation, careful breeding and selection to its present perfect type. Tested for years in various localities in comparison with well-known sorts, we find it fully equal in average bulk to any on the market, but in depth of grain and weight of shelled Corn per bushel, it has no competitor. Its habit of growth is a very vigorous, medium sized, strong stalk, with broad, closely set leaves, which makes it a valuable fodder Corn. For prices, see below.

Johnson County White Dent

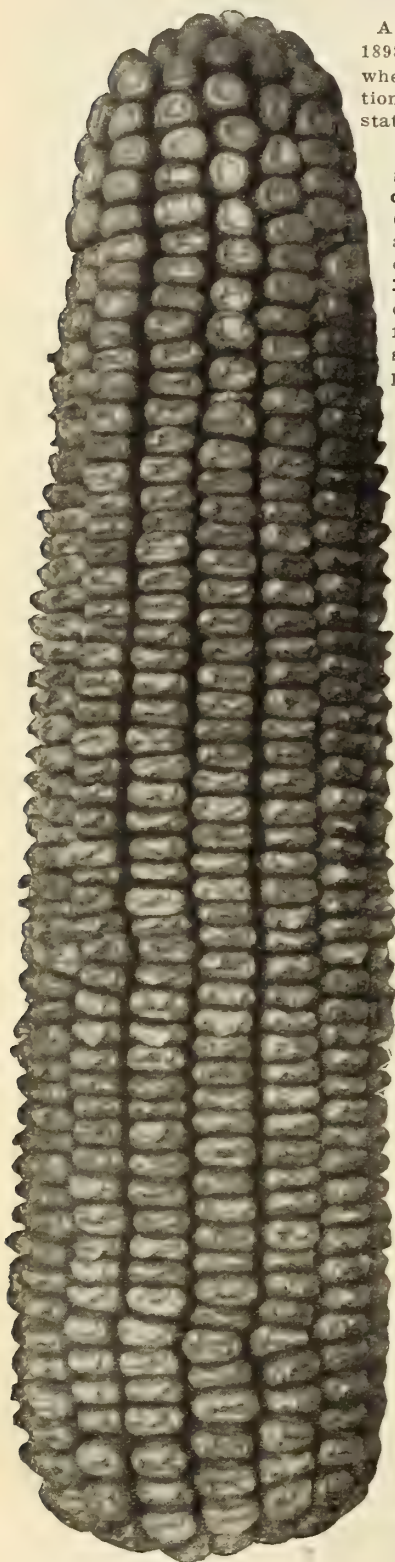
This variety is a cross between Boone Co. White and Forsythe Favorite and developed and introduced by L. B. Clore and has had 18 years of careful painstaking and intelligent selection and breeding. For the corn-growing belt, we are quite sure there is no White Corn grown to-day of equal merit. The Corn has become famous for yield and quality, and especially valuable where one wishes to grow show stock.

The shape of the ear is cylindrical to within about 2 inches of the tip, then slightly tapering. Tips fill well over the end and a large per cent. of the ears are entirely covered with grains; the butts are well rounded out with a medium-sized shank, kernels very uniform wedge shaped, pure white, and white cob; ears average about 10 inches in length with the circumference about three-fourths of the length.

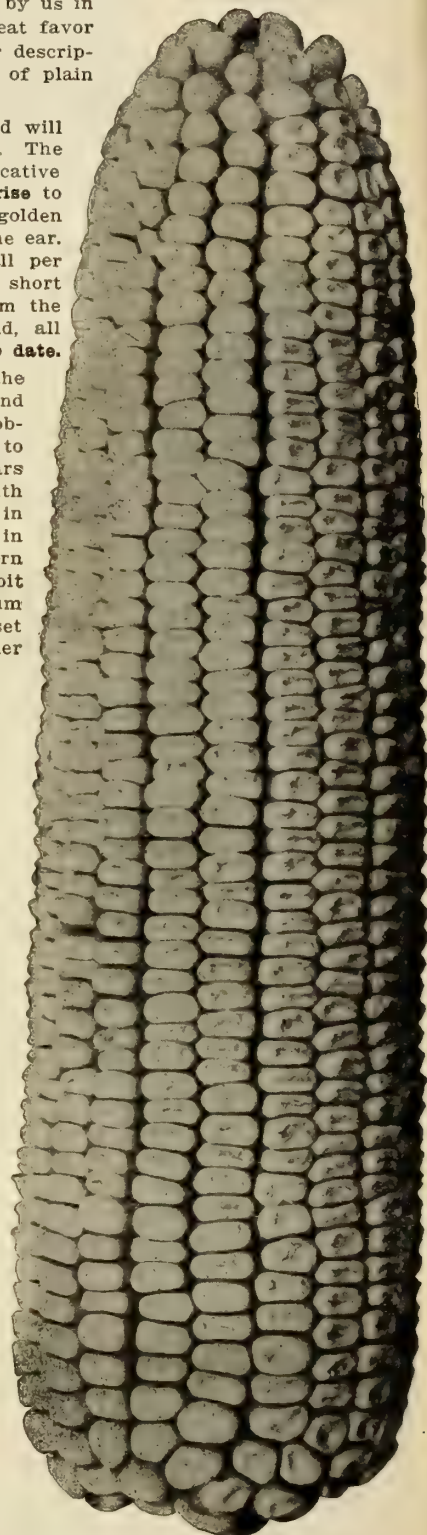
Of strong and vigorous habit of growth and well covered with broad blades,—very valuable for ensilage. The length of season is about 120 days. This corn has been successfully grown as far north as Ft. Wayne, Ind., or Marion, Ohio. We especially recommend it for the great corn-growing valleys in latitudes of Columbus and south.

PRICES—Sample ear, 30c. each; large prt., 10c.; qt., 40c., postpaid. By express or freight, purchaser paying transportation charges: ½ pk., 50c.; pk., 85c.; ½ bu., \$1.50; bu., \$2.75; 5 bu., \$13.00. 6 Select ears, 60c.; bu. (68 lbs.) of ears, \$3.25.

As corn prices are made before corn conditions are fully known, those wanting larger quantities will please write for special quotation.



Golden Surprise



Johnson County White Dent

The splendid varieties described and priced on this and the following pages have all been grown especially for seed, and will be found well cured and true to name—in fact, first-class in every respect. We would ask our customers to place their orders as early as possible while our stocks remain unbroken. Prices of Field Corn by Packet, Quart and Sample Ear include postage. On larger quantities, by express or freight, purchasers must pay the transportation charges.

True Yellow Leaming

An extensively grown, large, Yellow Dent variety, which we have grown and sold with the greatest satisfaction for years. Our improved strain we do not believe is excelled, if equaled, by any other now offered. It has pure, glossy yellow ears, growing low, on very strong, heavy stalks; grains square and deep; ripens quite early—frequently in 100 days from planting. Yields from 75 to 100 bushels per acre. Adapted to rich soils. (See illustration.)

For prices, see below.

True Yellow Clarage

Best Second Early. Sure to Ripen

This variety has been grown extensively in this locality for over 50 years, and is one of the surest cropping varieties ever grown here. Ripens between Pride of the North and True Yellow Leaming. Ear medium in size, very uniform its entire length and well filled out at both ends. Husks very easily; of rich golden yellow color and very productive. In favorable seasons will ripen planted as late as the first of July.

Highly recommended as one of the best in points of early maturity, productiveness and very rich in feeding qualities. (See illustration.)

For prices, see below.

White Cap Yellow Dent

We offer a large strain of this splendid variety. Of a fair crop in recent years, ten ears weighed 13 lbs. It is a very strong grower, with heavy fodder and large ears. The grain has white cap, with lemon-yellow body. An enormous yielder. We have only a limited quantity of this, which we offer while it lasts as priced below.

Pride of the North

The very earliest Yellow Dent Field Corn in cultivation, and can be successfully grown farther north than any other Dent variety. Ripens readily even in New England. Matures perfectly in 90 days and is very frequently safe from frost in 75 days. Very hardy, ears of uniform size; too small for a main crop, but right size for stock feeding; cob small, kernels set closely on cob and are long and compact. This variety is planted quite largely for early crop to feed stock while yet green; and is also planted late when larger varieties could not possibly mature before the frosts.

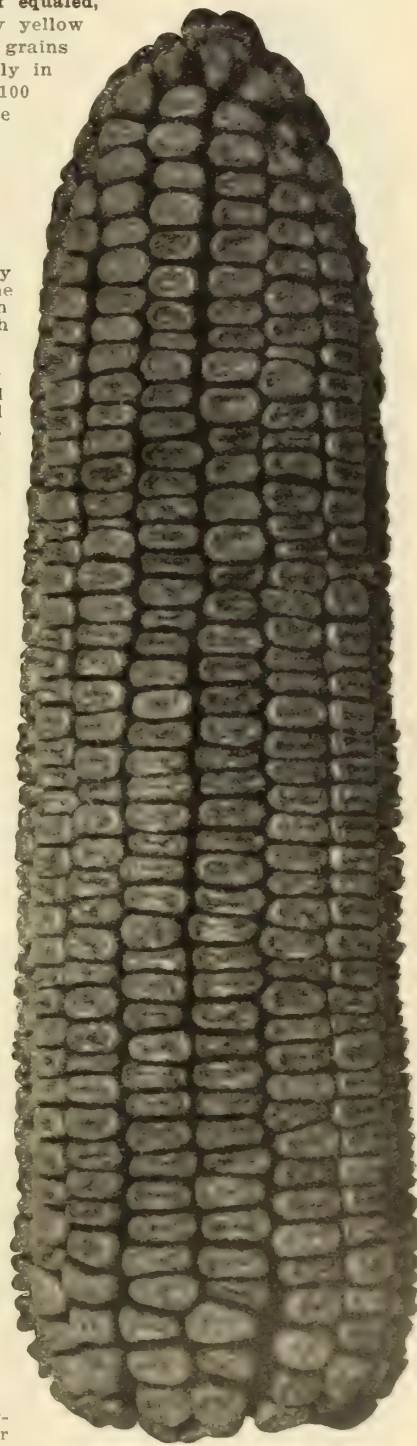
UNIFORM PRICES FOR ALL VARIETIES LISTED ABOVE:

Sample ear, 30c.; large pkt., 10c.; qt., 40c., postpaid. By express or freight, purchaser paying transportation charges: ½ pk., 50c.; pk., 85c.; ½ bu., \$1.50; bu., \$2.75; 5 bu., \$13.00. 6 Select ears, 60c.; bu. (68 lbs.) of ears, \$3.25.

A. D. Lloyd, Bexar Co., Texas (Feb. 12, 1913), writes: "I want to thank you for your very prompt manner of doing business. It has been very satisfactory to me and in the future you many count on having whatever orders I have to place to go to The Livingston Seed Co. Again thanking you for your courteous treatment, I am. Very respectfully."



True Yellow Leaming Field Corn.



True Yellow Clarage Field Corn.

Livingston's Mammoth White Dent Field Corn

A very large White Dent Field Corn. Has a broad, very deep, pure white kernel and cob. Grades strictly white in any market. It is very desirable for white cornmeal, and those desiring a large white corn cannot fail to be pleased with this splendid variety. We have sold this excellent Corn for many years past, and we can honestly pronounce it the best large White Dent. Matures as early as any of the yellow varieties of the same large-sized ear. (See illustration to right, from our own photograph.) For prices, see below.

Reid's Thoroughbred Yellow Dent

(See illustration to the left, from our own photo.)

If any seed grain can truly be called pedigreed, the Reid's Yellow Dent Field Corn is certainly entitled to be known as such, as its history dates many years back. It has been bred up and selected with painstaking care to what is at the present time one of the best varieties of yellow Corn grown. Ear medium in size, remarkably uniform, and of a bright yellow color, with solid, deep grain and small red cob. Has from 18 to 24 rows of kernels on the cob, 50 to 60 grains in the row, and is well filled over the ends, and especially the butt, leaving a small shank, which makes it a great favorite with huskers. Best shredding sort, as it shatters the least of any by actual test.

In some of the principal Corn growing states of the West, it has no equal, and reports from many other states are very flattering. The Iowa Experiment Station report of 1901 gave the Reid's Yellow Dent an average of 100 bushels per acre, while the Agricultural Students' Union of Ohio in 1903 gave it a yield of 14 per cent. above all other varieties. As a winner of prizes from the World's Fair at Chicago in 1893, and at Western Corn carnivals and shows down to the present time, it stands at the head. For prices, see below.

UNIFORM PRICES FOR SORTS LISTED ABOVE.

Sample ear, 30c.; large pkt., 10c.; qt., 40c., post-paid. By express or freight, purchaser paying the transportation charges, ½ pk., 50c.; pk., 85c.; ½ bu., \$1.50; bu., \$2.75; 5 bu., \$13.00. 6 Select ears, 60c.; bu. (68 lbs.) of ears, \$3.25.

Mrs. Geo. E. Crane, Ohio, writes (Oct. 2, 1913) as follows: "I wish you might see our Ponderosa Tomatoes grown from plants bought of Livingston's this Spring. They are wonderful. Mr. Crane was in Columbus and saw six that were on exhibition in your down-town window. He very much regretted not having taken some of ours for they are so much larger."

E. M. Chate, Travis Co., Tex., writes (10-11-13): "Had one acre of your Ohio Crimson Peppers this year and am certainly pleased with them."

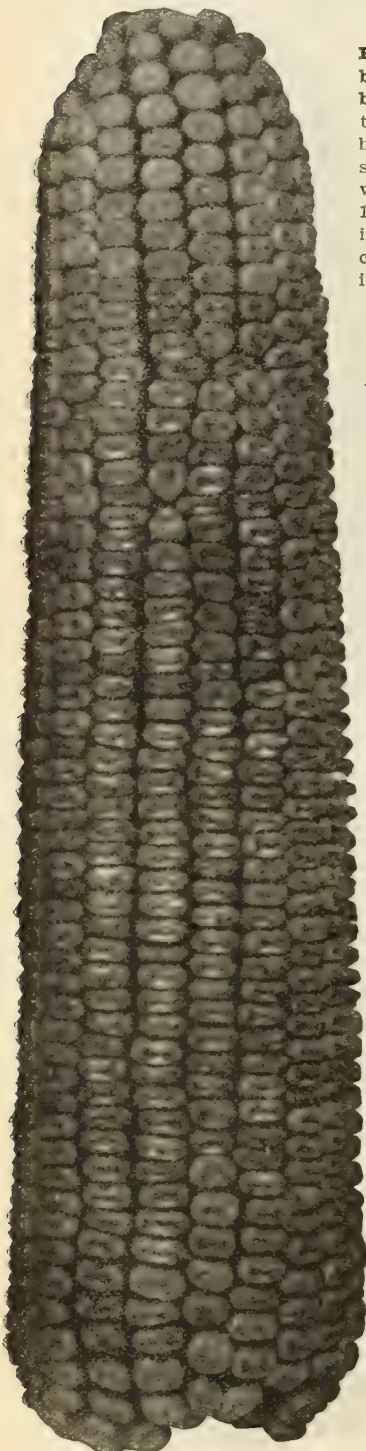
L. E. Mathews, Crawford Co., Tex., (Oct. 14, 1913) writes as follows: "How about your 'Very Best French Golden Self-Blanching Celery Seed' this year? Can I get at least 6 oz. or ½ lb.? I do not care what the price is, but want your Very Best. All that I ever received of you has been very fine and true to name. I bought quite a number of plants this year as I did not have enough and there is a great number of 'green' ones among them. Yours have been the best I ever had."

W. E. Coffin, Jennings, Calcasieu County, La., writes (Dec. 23, 1912) as follows: "I have been using your seeds for quite awhile and beg to say they have given the best of satisfaction, and have never received a single package of any kind of seed but what has germinated and grown fine."

E. S. Forne, Napier, New Zealand, writes (Mar. 2, 1913): "All seeds which I received from you last year turned out beyond expectations, particularly the onions, tomatoes and watermelons. In future I shall grow nothing else but Livingston's 'True Blue' seeds, and have recommended them to all my friends."

Mrs. C. D. Sweet, Litchfield Co., Conn., writes (4-14-13): "I had seeds from you last year and they were certainly GREAT,—the admiration of all who saw them."

Jos. F. Eppley, Muskingum Co., Ohio, writes (4-5-13): "Last year from your Danish seed I grew the finest field of Cabbage in Muskingum County."



Reid's Yellow Dent



Mammoth White Dent

Fodder and Ensilage Corn Varieties

Red-Cob Ensilage Corn

A Southern type of large, white corn, with strong, leafy stalks and short joints. Farmers growing the Red-Cob Ensilage for the first time tell us they hardly know what to do with the enormous yield of fodder. Pk., 50c.; bu., \$1.50; 2 bu., \$2.80; 5 bu., \$6.75; 10 bu., \$12.50.

Sweet Corn for Green Fodder

There is nothing better or more greedily eaten by stock of all kinds. Can be planted the same as other corn, or sown thickly in drills or broadcast. Pk., 65c.; bu., \$2.50.

True Yellow Leaming Corn

Highly recommended by the best ensilage authorities for Northern states, as True Yellow Leaming produces large quantities of leaves. Bu., \$2.25; 5 bu., \$10.50.

Mammoth White Dent Corn

Yields immense crops of stalks which make fine feed for stock of all kinds, either as ensilage or fodder corn. Bu., \$2.25; 5 bu., \$10.75.

Popping Corn

Selected White Rice

Our stock of this variety is choice, having been selected very carefully for many years. **This variety is the best for popping; grains pointed; pops full and white;** ears large sized, very handsome; productive; excellent quality; very crisp and delicious. By mail, postpaid—Nice Sample Ear, 10c.; pkt., 5c.; ¼ lb., 10c.; lb., 25c.; 3 lbs., 60c. By express, not prepaid—10 lbs., \$1.20; 25 lbs., \$2.50.

Miscellaneous Farm Seeds

Our grades of Farm Seeds are away above the average in quality, and this makes a big difference in the value—the low, trashy grades being costly at any price—and yet our prices will be found very little, if any, above those quoted by others. The man in charge of this department, having been with us more than twenty years, is thoroughly posted and will take pleasure in giving customers any information desired. The prices quoted below are **Net Cash, free on cars, this city, purchaser paying all transportation charges**, except when quoted postpaid. At the prices given here we make no charges for bags or cartage. The prices quoted are **subject to market fluctuations**. Should any article seem high, or when customers are in need of large quantities, we will be pleased to submit samples and quote, on application, the lowest prices that the market will justify at the time. Please state quantities when writing for prices.

Prices on Farm Seeds are subject to important market changes. Ask for Samples and Prices before placing your order.

Artichoke Roots

The Jerusalem Artichoke can be grown only from the tubers. It is especially valuable as a cheap and healthful hog food, and the hogs do the harvesting. Tubers—4 ozs., 10c.; lb., 30c.; 3 lbs., 75c., postpaid. By express or freight: Pk., 60c.; ½ bu., \$1.00; bu. (50 lbs.), \$1.75; bbl. of 3 bus., \$4.50. 3 to 5 bushels of tubers for an acre.

Soy Beans

The Soy Beans have attracted much attention in recent years on account of their great value as a feed, being much richer in protein than flaxseed, oilmeal, bran or oats, and can be used to balance a feed ration to good advantage; are worth for feed about \$1.50 a bushel when bran is worth \$20.00 to \$22.00 per ton; are used extensively in silage with corn, cane, etc. By its use the dairyman can make a combination that is wholesome, economical and a completely balanced food for milch cows. They also equal or surpass clover as a soil enricher, gathering nitrogen from the air; are used by fruit men as a cover crop with good results. May be used for silage, cover crop or feed in matured state. Price by express or freight, **Late Yellow**, pk., 75c.; bu., \$2.40.

Medium Early Green or Guelph Soy Bean

One of the oldest and best known sorts, which has become quite a favorite north of the Ohio River both

for seed and forage crop. Grows 24 to 38 inches in height; stems medium stout—¼ to ½ inch in diameter. The leaves are very dark green, full and large in center, while the edges are

freely curled. Pods of medium size, 1 to 1½ inches long. Color of seeds, bright green. The branches are usually far enough above the ground



Soy Bean

to permit easy harvesting. Postpaid, ½ lb., 20c.; lb., 30c. By express or freight: Pk., 80c.; bu., \$2.75.

Ohio Grown Stock—To be sown north of the Ohio River. Price same as Early Green.

Buckwheat

(50 lbs. to bushel.) Should be sown about the middle of June, using from 1 to 3 pecks of seed per acre.

New Japanese—This new sort has proven to be much earlier and more productive than any other variety. Grains very large and of rich brown color. It excels all in yield and earliness. Lb., 25c.; 3 lbs., 60c., postpaid. By express, not prepaid: Pk., 50c.; bu., \$1.80.

Silver Hull—A very good and popular variety. The grain is of light gray color, rounder than the common variety; has a much thinner hull. Lb., 25c.; 3 lbs., 60c., postpaid. By express, not prepaid, pk., 60c.; bu., \$1.85.

Cow, or Southern Peas

(60 lbs. to bushel.) There is no surer or cheaper means of improving and increasing the productiveness of soils than by sowing Cow Peas. They put plenty of nitrogenous vegetable matter into the soil at a small cost. It has the power to extract the costly nitrogen from the atmosphere and store the same in the vines and roots, so that if the crop is cut off the land is still enriched and condition improved.

For hay they are most valuable. For ensilage they are unsurpassed. When it is desired to turn the entire crop under as a soil improver, it is better to do so after the vines are partly dead. A good picking of the dried peas can be made before plowing under. Cow Peas can be sowed in May or June, after the ground is warm, or about the close of the corn planting, at the rate of one-half to one bushel per acre.

Black—Is quick to mature. Well adapted for Northern sections. A vigorous grower and a great yielder. Pk., 90c.; bu., \$3.25.

Whip-Poor-Will

(See illustration)—An early bunch-growing variety; a great favorite in the North and West; is quite prolific. Pk., 85c.; bu., \$3.00.

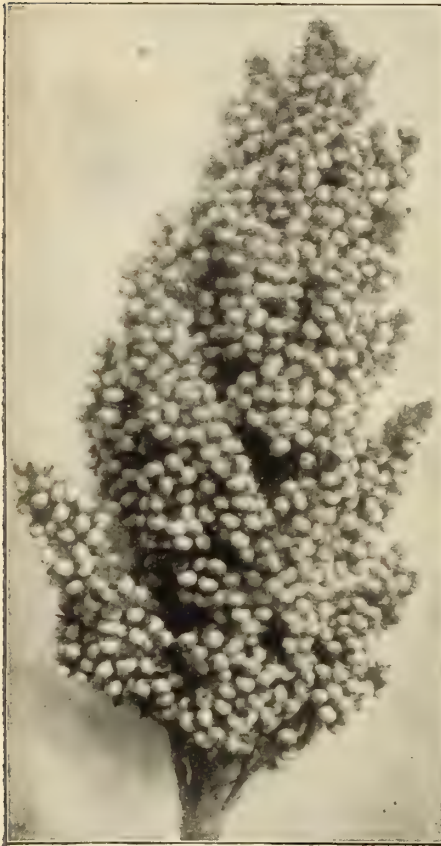
Black-Eye—A prolific vine-growing variety of merit; seed often sold for table use. Pk., \$1.25; bu., \$4.00.

Market Price on Cow Peas changes often. Write for prices on larger quantities when ready to buy.



Whip-Poor-Will Cow Peas

Various Types of Sorghum (The Great Dry Land Forage Plants)



Feterita

Feterita

A non-saccharine Cane introduced last year; is very similar in appearance of plant and grain to Kaffir Corn but has much to recommend it over Kaffir Corn. First, drought resisting. Second, branches from the root. Third, from twenty to thirty days earlier, and fourth, more prolific. These are the claims made by the introducers. And same were verified this season on our own trial grounds. Planted side by side, Feterita grain was out of the milk and hard before Kaffir Corn was in bloom. We look upon it as being a valuable introduction for all poultry men for all points east of the Mississippi River and it is our present intention to grow some of this grain on our own farms as a crop this coming season.

Postpaid: lb., 20c. By express or freight: 5 lbs., 70c.; 10 lbs., \$1.20; 25 lbs., \$2.75. Ask for prices on larger lots.

H. P. Stallbaum, Dupage Co., Ill., (Feb. 12, 1913) writes: "Your Lima Beans were unusually good. The finest I ever saw. Got little over 30 bus. of beans from 1 pk. Can you show better results on your farm?"

David Saloser, Meigs Co., O., (Feb. 13, 1913) writes: "Potato Eyes I got from you last Spring did well. I raised enough large, fine, good shaped tubers to plant my whole garden patch this Spring. Your seeds also give good satisfaction."

All Prices Subject to Market Changes

Sorghum, or Sugar Cane

(50 lbs. to bushel)

For Fodder—Sow 1st to 15th of June, 100 lbs. seed per acre, and harrow to cover 1 to 2 inches. Harvest after first frost. Cut with self-binder or mower, and after three days of sun put up in large cocks and feed from field, or store in long 8-foot-wide ricks near feed lot. Yield 8 to 10 tons per acre. Cows and all stock do as well when fed on it as on grass. They will eat it up "slick and clean." Our sales grew from a few hundred pounds to many tons as soon as we found out and recommended this way of growing it. **For Syrup**, plant in hills and cultivate same as corn.

Early Amber Cane—The earliest and makes the finest quality of forage or syrup. **Best Seed**, postpaid: Oz., 5c.; lb., 30c.; 3 lbs., 75c. By express or freight: 10 lbs., 60c.; 50 lbs., \$2.25; 100 lbs., \$4.00.

Early Orange Cane—A strong grower; stalks heavier and a little later than Amber. **Best Seed**, postpaid: Oz., 5c.; lb., 30c.; 3 lbs., 75c. By express or freight: 10 lbs., 60c.; 50 lbs., \$2.25; 100 lbs., \$4.00.

Write for Prices on larger quantities, stating amount you can use. Will send samples gladly if you so desire.

Kaffir Corn

A Great Fodder Crop. The Finest Grain for Poultry and Pigeons

(50 lbs. to bushel.) Eaten by all domestic animals, whether fed in the grain or ground and cooked. For grain, sow at rate of 5 to 7 lbs. per acre and cultivate same as corn. Average yield 50 bushels per acre. For hay, sow in drills or broadcast at rate of 50 to 75 lbs. per acre, and cut when seed is coming to the dough stage. Makes valuable hay, yielding from 5 to 10 tons per acre. Postpaid: Oz., 5c.; ½ lb., 10c.; lb., 25c.; 3 lbs., 50c. By express or freight: 10 lbs., 50c.; 25 lbs., 85c.; 50 lbs., \$1.35; 100 lbs., \$2.50.



White Kaffir Corn

Peanuts

(22 lbs. to bushel)

Improved Large Virginia

A very profitable variety to grow, and is easily cultivated; very erect; the largest pods and kernels with fewer imperfect pods than any variety. The vines make valuable forage for stock. By mail, postpaid: Large pkt., 10c.; ½ lb., 20c.; lb., 35c.; 3 lbs., \$1.00. By express: 4 lbs., 75c.; 10 lbs. or over, 15c. per lb.

Sweet Spanish Peanut

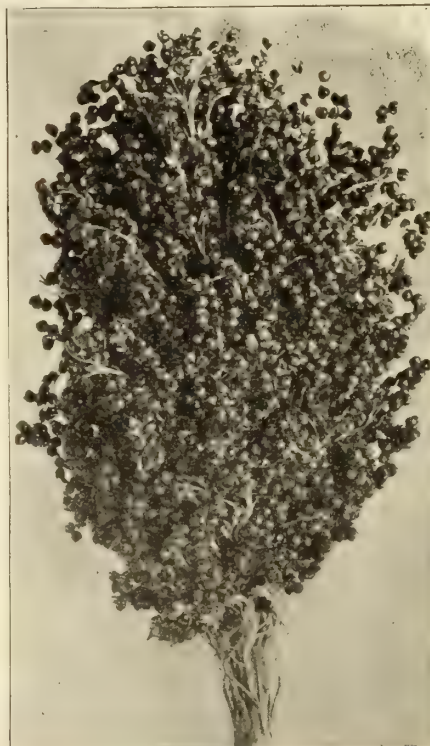
The earliest variety grown. Pods are small, remarkably solid, well filled, and of an extra fine quality. Yield per acre very large. Postpaid: Large pkt., 10c.; ½ lb., 20c.; lb., 35c.; 3 lbs., \$1.00. By express: 4 lbs., 75c.; 10 lbs. or over, 15c. per lb.

Canada Field Peas

(60 lbs. to bushel)

Every year there is more inquiry for Field Peas. They stand in the front rank as a fodder, especially for hogs. They can be fed green or dry. They will grow on land that will not produce clover. Sow 1½ to 2 bushels to the acre, or, if with oats, sow 1 bushel of each. Sow the peas first and plow under, 4 to 5 inches; then oats on top and harrow in. Pk., 75c.; bu., \$2.75. For large quantities, write us for prices, stating the quantity you can probably use.

All Prices Subject to Market Changes



Head of Sorghum

Dwarf Essex Rape

(50 lbs. to bushel.) It is extensively grown for forage. Farmers who desire to get young cattle, sheep, lambs or young hogs into favorable condition can do it most cheaply by growing this Rape. Prepare ground as for turnips, and sow as soon as the frost is out. It is ready in about six weeks. Also sow in June or July broadcast at the rate of 3 or 4 lbs. to the acre. When eaten down before it has made its full growth it will come up again with more or less vigor. Used as pasture, not for hay. Our stock is the **True Dwarf Essex**, and not the worthless annual. Postpaid, oz., 5c.; ¼ lb., 15c.; lb., 30c. By express or freight: 10 lbs., 80c.; 50 lbs., \$4.00; 100 lbs., \$7.50.

Broom Corn

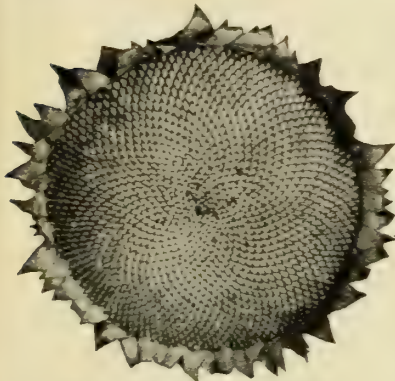
(40 lbs. to bushel)

Improved Evergreen—The best variety for general cultivation on account of the color and quality of brush. Ripens early; grows about 8 to 10 feet high; brush of good length, fine and straight, and always of green appearance when ripe. Our stock is select, having been saved by professional growers for their own planting. Lb., 25c.; 3 lbs., 60., postpaid. By express: 10 lbs., 80c.; 25 lbs., \$1.50; 100 lbs., \$5.50.

Sunflower

Mammoth Russian—Immense yielder—125 bushels of seed to the acre has been grown at less expense than corn. Very highly recommended for poultry. Best egg-producing food known. Good feed for horses as well. (See illustration.)

Choice Stock—By mail, postpaid, oz., 5c.; ¼ lb., 15c.; lb., 25c. By express or freight: 10 lbs., \$1.00; 25 lbs., \$2.25; 100 lbs., \$7.50.



Mammoth Russian Sunflower

states where the Winters are very severe and where many forage plants Winter kill. It is equally valuable in the South for a hay crop. Every gardener, dairyman and farmer should use this wonderful soiling plant.

Where conditions of soil, time of sowing, and rainfall have been favorable, it will make from 10 to 15 tons of green top to turn under by the 1st to the 15th of May.

The root system is quite heavy and like all leguminous plants bear to a greater or less extent nitrogen gauls or nodules according to season, land and inoculation.

If the crop is to be used for hay, it will be well to sow 45 to 60 lbs. of Vetch, and with it ½ bu. Rye per acre. Write for circular giving fuller culture directions.

If you want any considerable quantity, write for special quotations. **Price—Postpaid:** Oz., 5c.; 4 oz., 15c.; lb., 30c. **By express or freight, not paid:** 10 lbs., \$1.40; 25 lbs., \$3.00; 50 lbs., \$5.50; 100 lbs., \$10.00.

Spring Vetches

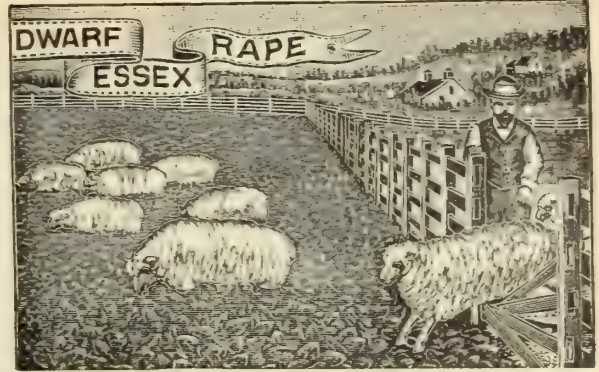
A good forage plant; also used for plowing under. Sow 50 to 75 lbs. to the acre broadcast, like wheat or barley.

Postpaid: Oz., 5c.; 4 oz., 15c.; lb., 25c. **By express or freight:** 10 lbs., \$1.00; 25 lbs., \$1.75; 50 lbs., \$3.00; 100 lbs., \$5.50.

W. M. Neff, Clinton Co., Ohio, writes (4-15-13): "We have used your seed for a number of years and they surely give good satisfaction."

J. Hildenbrand, Wyandot Co., Ohio, writes (March 26, 1913), as follows: "I have been in the Melon business for ten (10) years and have not had anything to beat your TIP TOP; will plant 1½ acres this year."

L. M. Bansbottom, Starke Co., Ind., writes (1-13-13), as follows: "Am a large grower of onions. Tried your own growing of Select Yellow Globe Danvers, 1911, which was very satisfactory."



Tree and Hedge Plant Seeds

Osage Orange—The best of all hedge plants. Postpaid: Oz., 10c.; ¼ lb., 25c.; lb., 75c. By express: 10 lbs., \$6.00; 25 lbs., \$13.75; 50 lbs., \$25.00.

Catalpa (Speciosa)

A rapid grower and makes the best timber trees. Postpaid: Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.75.

Russian Mulberry

Easy grown; hardy; fine for hedges; makes fence posts in five years; fruit good. Pkt., 10c.; oz., 30c.; ¼ lb., 85c.; lb., \$3.50, postpaid.

Black Locust

A very rapid grower, as fence posts or ties may be cut in 10 years from planting seed, and will last a lifetime. Oz., 5c.; ¼ lb., 20c.; lb., 60c., postpaid. By express: 10 lbs., \$5.00; 25 lbs., \$11.25; 50 lbs., \$20.00.

Sand or Hairy Vetch

One of the Newer Leguminous Plants of Value

(*Vicia Villosa*)—Since its introduction into this country this plant has made a splendid reputation for itself, especially as a crop to turn under. It succeeds on almost all soils, even poor sand soils produce quite good crops, though it is much more vigorous on good land. It is very hardy and remains green all Winter; it should be sown during August and September, and we advise that it be sown with rye—the rye helps to hold it up. It is much harder than scarlet Clover and is giving excellent returns in the Northern and Northwestern



Patatas

Livingston's Superior Seed Potatoes

Kartoffeln

The necessity for changing seed often is universally admitted by all well-posted growers, especially when the best seed can be had at so little additional outlay. Owing to the perishable nature of seed potatoes and the unsettled condition of all markets, prices are made subject to market change and confirmation of order on receipt of same.



Our Great Specialty—Extra Early Ohio Potato
(See description below)

Order Seed Potatoes Early. We would most earnestly request our customers to send in their orders early. We then book and fill them in the order received. By so doing you take very little risk in getting what you want, as compared with waiting until the last moment.

Special Instructions

Owing to the perishable nature of seed potatoes and the unsettled condition of markets, all prices are made subject to market change and confirmation of order on receipt of same, and will fill orders just as soon as the weather, in our judgment, will permit. However, we cannot become responsible for changes in the weather by which the potatoes might be damaged while en route. We will ship at any date our customers may designate, when requested to do so, regardless of the weather, if customers wish to take their own risk. When ordering late, please state whether we shall return the money or send some other kind of equal value, provided we cannot supply the sort ordered. Please give plain and explicit shipping directions.

Extra Early Ohio Potato

Our Specialty. A Grand Potato.

Some early varieties will yield edible Potatoes about as soon as the Extra-Early Ohio, but their tops will be green for days after the Extra-Early Ohio have fully ripened. The Extra-Early Ohio is fully two weeks ahead of the Early Rose, and is a general favorite with potato growers and marketmen alike, and is the most profitable Potato they can possibly grow. The sprouts are very strong, the vines grow erect and are easy to cultivate. Maturing early, it brings the highest prices, and the land can be used for another crop after it; does well on any soil suitable for Potatoes. The tubers grow compact in the hill, are easily dug, with very few small ones—nearly every Potato is of marketable size; has few eyes, which are even with the surface. With heavy manuring, close planting and good culture, a very large and profitable crop can be expected—300 to 500 bushels per acre is not an unusual yield. We are confident that many growers do not really know a true Extra-Early Ohio, and have been growing some other sort for it. We know ours is right, because the stock is the product of original headquarters seed.

PRICES—Choice Northern Grown Seed: ½ pk., 30c.; pk., 50c.; ½ bu., 90c.; bu., \$1.60; bbl., \$4.40. Special prices will be quoted on larger quantities.

Culture

Any good soil will produce Potatoes, but a sandy loam is best. Make furrows of good depth, 3 feet apart; drop the cut-seed pieces about 8 or 10 inches apart. If grown in hills, one or two pieces of potatoes, containing one or more eyes in each piece, are placed in each hill, which are made 3 feet apart each way. Cover the seed four inches, but not so deep in wet, cold land. When the sprouts appear, cultivate and hoe to keep the soil free and clear of weeds. As the vines increase, draw earth around them, forming a slight ridge. Just as soon as the bugs appear use Paris Green. One peck will plant about 100 feet of row, or 100 hills. Ten bushels are required to plant an acre.

By planting Our Northern Grown Seed you are assured of Early Maturity, Increased Yield and a Vigorous Growth. To produce healthy stock we use first-class potato land, nothing but pure, well-matured, good-sized seed. The seed potatoes are very carefully handled when digging and barreling, that they may not be bruised or otherwise injured. Our seed potato stocks should not be compared with potatoes picked up on the market, named at a guess, and sold for seed.

Seed Potatoes by Express or Freight

At Barrel, Bushel, Peck or Half-peck Prices, buyer pays the freight or express charges. Our barrels contain 2¾ bushels, good measure.

Seed Potatoes by Mail

Prices for small quantities of any of our Seed Potatoes, unless otherwise quoted: Lb., 25c.; 3 lbs., 60c., postpaid.

Seed Potato Eyes

For those at very great distances, or where for any special reasons the express or freight charges would be exorbitant, these Seed Potato Eyes afford an inexpensive way to obtain and test any of the varieties we offer. Three dozen Eyes, any kind, 25c., postpaid.

All transportation charges must be paid by the buyer, except when offered postpaid, by mail. No potatoes sent C. O. D.

Hybridized Potato Seed

We offer a choice strain of Potato Seed which is the product of numerous hybridizations between many of the best new and old varieties in cultivation. A dollar invested in this choice seed may make hundreds of dollars in two or three years. The grower is almost always sure of several valuable seedlings. Full cultural directions on each packet. Pkt., 15c.; 2 pkts., 25c.; 10 pkts., \$1.00.

Mrs. Margaret McNew, Mo., writes: "The peck of Early Cobbler Potatoes did fine. I have three sacks full from the peck. They are nice ones. The garden seed did well. I had so many nice tomatoes and such pretty flowers from the seed I ordered from you last year."

Mr. Charles Dohrer, Parke County, Ind., E. E. 2, writes: "Your Early Ohio Potatoes we raised were the finest on the market here, and I hope you will have some more like them this year."

Fred C. Singleton, Ky., writes us on Oct. 1, 1913, as follows: "The package of Livingston's Stone Tomato I purchased of you in the Spring certainly proved a success. It has been exceptionally dry here, but still I had the best tomatoes on the market."

The Reliable Potato Extra Early Cobbler (Irish Cobbler)

One of the most reliable first-early Potatoes ever sent out. It ripens almost with the Early Ohio and is so uniform that every hill seems to ripen at one time. The yield is very large for an early variety—equal to some of the late ones. Form oval and round; skin lightly netted, creamy white and having few eyes, which are quite shallow—some even with the surface. Flesh pure white and of the finest quality—not exceeded by any early variety. Keeps perfect until Spring, when it starts large, strong and vigorous sprouts. Its strong growth, earliness, uniformity, large yield, fine quality and very handsome appearance have brought the Extra-Early Cobbler right to the front as a profitable variety for market or home use.

PRICES—Choice Sorted Northern Grown Stock: ½ pk., 40c.; pk., 60c.; ½ bu., \$1.00; bu., \$1.75; bbl., \$4.75.

The Seneca Beauty Potato

Very Smooth, Uniform Size, Almost Blight Proof, Productive, Splendid Quality, Fine Keeper

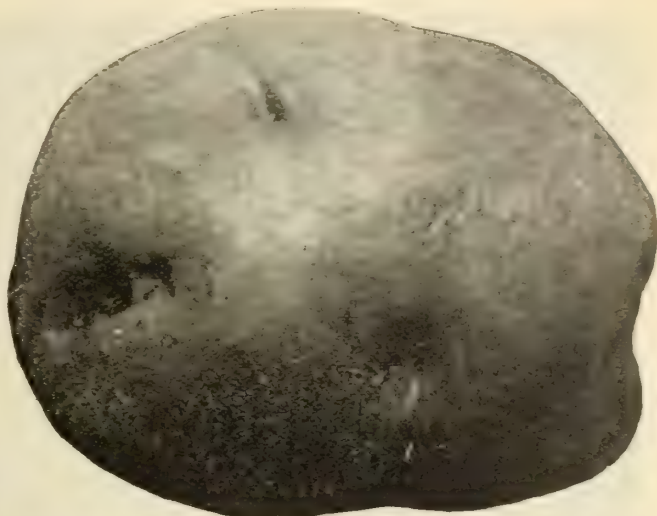
A grand good medium late Potato, and too much has not been said in its praise. Its beautiful and distinct appearance sells it in any market, and its fine table qualities please all. The tubers are large and smooth, with few eyes close to the surface, and of a beautiful pink color. Uniform in size and shape, scarcely any small ones. Vines rank and healthy, and loaded with beautiful blossoms. Good keeper and a heavy cropper. Prices, Choice Sorted Northern Grown Stock: ½ pk., 40c.; pk., 60c.; ½ bu., \$1.00; bu., \$1.75; bbl., \$4.75.

Livingston's Rusty Coat Potato

Uniformly long and slightly flattened; is entirely free from prongs, and the eyes are even with the surface. Beautiful buff skin, heavy netting, like a russet apple; flattened shape; of very highest quality, especially as a potato to bake. Its flesh is of the finest texture and very free from hard or black spots. Cooks white as flour, bursting open at any season of the year, and is of the finest flavor. It is an abundant yielder. They sell on sight in the market. This splendid Potato always brings the very highest market prices, and commission men tell us they cannot get enough of them. The seed we offer is strictly pure, hand-sorted. Price, Choice Stock Seed, Northern Grown: ½ pk., 30c.; pk., 50c.; ½ bu., 90c.; bu., \$1.50; bbl., \$4.00.



Rusty Coat Potato



Extra-Early Cobbler

The "Livingston" Potato

It is "a White Seneca Beauty," and the Seneca Beauty is admitted by all who have ever grown it to be one of the most beautiful of the many rose-colored varieties; and those familiar with it will at once realize what a beauty it would be in a white jacket, and especially if it retained its delicate Peachblow eyes. This is exactly what we have in "The Livingston." It is a very strong grower and most productive and not subject to blight. Tubers of beautiful form, medium to large size, oblong, and of uniform thickness; slightly flattened; skin white and slightly russeted—all of which denotes the very highest quality. Cooks dry and has splendid flavor. Prices, Choice Sorted Northern Grown Stock: ½ pk., 40c.; pk., 60c.; ½ bu., \$1.00; bu., \$1.75; bbl., \$4.75.

Livingston's Banner Potato The Best Main Crop Variety

The Banner is a seedling and is one of the finest main crop white Potatoes on the market. No Potato ever made so good a record in so short a time with all classes of growers and on all kinds of soils. None surpass it in uniform, handsome appearance. Its slightly rusty skin is of a light cream-white color. Its shape is a little oblong and slightly flattened (cooking through easily). The eyes are very shallow. The size is large and desirable, very few being under marketable size. Always smooth and regular in form; grows strong and vigorous from the very sprout. Is also a great drought resister. As near blight and seab proof as any variety we have ever known. The flesh is very white, and whether boiled or baked is of the same delicious tasty quality. Medium late. Choice Sorted Northern Grown Stock: ½ pk., 30c.; pk., 50c.; ½ bu., 90c.; bu., \$1.50; bbl., \$4.00. Write for special prices on larger quantities.

Seed Sweet Potatoes, New Jersey Grown

Carefully dug, handled and stored over Winter for us, expressly for sprouting purposes. The seed stocks are selected from the most perfect and prolific hills at the time of digging. We have been bedding and selling this stock for more than thirty years, and find the potatoes much dryer and sweeter than those grown from Ohio or Western grown seed. We repack before shipping, but we wish it distinctly understood that customers take all risks after we deliver in good condition to express or railroad company here. We book orders at any time, but do ship until about planting time. Our barrels contain 3 bushels, good measure. No Sweet Potatoes shipped C. O. D. Prices quoted are subject to market changes after March 1. Good Stock is very scarce this season. Order early.

Up Rivers

Select strain of smooth, short, "chunky" Yellow Jersey Sweet Potatoes, which yield a larger per cent. of marketable stock and sell higher than most other varieties we know. Dry and sweet. A splendid Sweet Potato. This is our specialty in Seed Sweets; we recommend it as very fine. Pk., 50c.; ½ bu., 80c.; bu., \$1.50; bbl. (3 bus.), \$4.00. by freight or express, not prepaid.

Yellow Jersey, or Nansemond

Fine old favorite. Pk., 50c.; ½ bu., 80c.; bu., \$1.50; bbl., \$4.00, by express or freight, not prepaid.

We make special prices for larger quantities. If you bed out several barrels, it may pay you to write us before you buy your seed.



FLOWER SEED DEPARTMENT

OUR list of flower seeds will be found to contain all varieties of real merit. Many times varieties are listed which are of no value whatever in the garden or are so difficult to grow that unless one has every facility for propagation, disappointment is sure to follow the purchase of seed. We want our seeds to give satisfaction and prefer not to have a very extended list, rather than to cause disappointment in any of the varieties procured. Cultural directions will be found on most of our seed packets. We will also give free to customers, on application, a very instructive and helpful leaflet—"Annuals from Seeds."

Annuals are those flowers that bloom and ripen their seed the first year, then die. Among these are Asters, Balsams, Mignonette, Sweet Peas, Nasturtiums, Morning Glories and many other very brilliant and fragrant sorts.

Biennials from seed, generally bloom the second year, then die. Some varieties, if planted early, bloom the first season; therefore are treated as Annuals.

Perennials are those that endure our Northern Winters with little or no protection and live and bloom several years in succession. A large majority of the Perennials will bloom the first year if started early in the Spring. Hollyhocks, Columbine, Larkspurs, Foxglove, Poppies, etc., are in this popular class.

Discounts on Packet Flower Seeds For 25 cents select 6 Five-cent, or 3 Ten-cent pkts. For 50 Cents select Packets to the amount of 65 Cents. For \$1.00 select Packets to the amount of \$1.30. For \$2.00 select Packets to the amount of \$2.75.

☞ Collections of seeds in Packets cannot be included when taking advantage of these discounts.

Showy Flowering Annuals for Beds and Massing

See page		See page	
Ageratum	88	Eschscholtzia	95
Alyssum	88	Gaillardia	95
Antirrhinum	88	Lobelia (Compacta)	98
Asters	85	Marigolds	98
Balsams	89	Nasturtium (Tom Thumb)	101
Calendula	90	Pansy	102
Calliopsis	89	Petunias	104
Candytuft	90	Phlox Drummondii	103
Carnation	90	Poppies	104
Celosia	91	Portulaca	105
Chrysanthemum	91	Salvia Splendens	106
Convolvulus Minor	99	Stocks	107
Cosmos (Dwarf)	92	Verbena	112
Dahlias (Tom Thumb)	93	Vinca	112
Dianthus (An'als)	94	Zinnias	113

Large Showy Annuals for Backgrounds and Borders

Amaranthus	88	Marigolds	98
Celosia Plumosa	91	Nicotiana	102
Centaurea	91	Poppies	104
Cosmos	92	Ricinus	106
Datura	93	Salvia	106
Euphorbia	95	Sunflower	107
Hibiscus	97	Zinnias	113
Larkspur (Br'ch'g)	97		

Colored Foliage Plants for Ribbon Beds

Centaurea, White	91	Pyrethrum A'reum	105
Coleus	92		

Climbing Annuals for Arbors, Verandas, Trellises, etc.

See page		See page	
Balloon Vine	89	Moonflowers	99
Balsam Apple	89	Maurandya	99
Canary Bird Vine	90	Morning Glories	99
Cobaea	91	Nasturtium	100
Cypress Vine	92	Sweet Peas	108
Dolichos	94	Thunbergia	112
Gourds	96	Wild Cucumber	112
Humulus (Hop)	97		

Hardy Flowering Perennials for Permanent Beds and Borders

Aquilegia	89	Lavender	98
Campanula	90	Lychnis	98
Candytuft	90	Myosotis	100
Canterbury Bells	90	Pinks (hardy)	94
Carnation	90	Poppy (hardy)	102
Chrysanthemum	91	Primrose (Japan)	105
Coreopsis (hardy)	89	Pyrethrum (h'rdy)	105
Delphinium	97	Scabiosa	107
Dianthus (hardy)	94	Stokesia	107
Digitalis	93	Sweet William	111
Gaillardia	95	Valeriana	112
Gypsophila	96	Violet	112
Hibiscus	97	Wallflower	112
Hollyhock	96		

Plants Succeeding in Partial Shade

Antirrhinum	88	Matricaria, or Feverfew	95
Aquilegia	89	Mimulus	100
Asperula	89	Myosotis	100
Bellis (Daisies)	92	Pansy	102
Canterbury Bells	90	Poppies (hardy)	104
Coreopsis	89	Violet	112
Delphinium	93		
Digitalis	93		

Plants for Vases, Hanging Baskets, Veranda Boxes, etc.

Drooping Sorts		Upright Growing	
See page		See page	
Alyssum	88	Centaurea	91
Asparagus	89	Coleus	92
Lobelia Gracilis	98	Fuchsia	95
Maurandya	99	Geranium	96
Nasturtium	100	Heliotrope	96
Petunia	104	Impatiens	97
Begonia Vernon	89	Pansy	102

Long-Stemmed Flowers for Cutting

Aquilegia	89	Larkspur	97
Asters	85	Marigolds	98
Calliopsis	89	Matricaria	95
Carnations	90	Mignonette	99
Centaurea Cyanus	91	Poppies	104
Centaurea Sweet	91	Salpiglossis	106
Chrysanthemum	91	Scabiosa	107
Coreopsis	89	Stocks	107
Cosmos	92	Stokesia	107
Dahlias	93	Sunflowers	107
Delphinium (hardy)	93	Sweet Peas	108
Gypsophila	96	Sweet Sultans	91
Gaillardias	95	Zinnias	113

Plants Suitable for Edgings

Ageratum	88	Marigold, Legion of Honor, 9 in.	98
Alyssum	88	Phlox D. Compacta	103
Begonia Vernon	89	Pinks (hardy)	94
Bellis (Daisies)	92	Portulaca	105
Candytuft	90	Pyrethrum Aureum	105
Centaurea didissima	91	Verbena	112
Cosmos (Dwarf)	92	Zinnia, Dwarf	113
Lobelia Compacta	98		



Simple's Late Branching Aster. Pkt., 10c.

Crego Pink

A large variety of a most beautiful shade of pink unlike any other Aster. It comes into bloom just ahead of the late branching Asters and being of Comet type affords variety in the garden. 1409—Pkt., 10c.

1408 Crego White—Similar to the above, only white. Pkt., 10c.

1407 Crego Purple—A new color added to this popular type last year. Pkt., 10c.

Royal

A type of Aster very much like the late branching, only coming shortly after Queen of the Market. It is a vigorous grower, double, and satisfactory in every way. 1486 White, 1487 Purple, 1488 Shell Pink, 1489 Lavender—Each 10c. per pkt.

Snowdrift

A white Aster of Comet type and one of the earliest of all. In bloom same time as Queen of the Market. 1485—Pkt., 10c.

Invincible

A very popular Aster in many parts of the country. It is a mid-season variety, very similar in form to the late branching, but flowering a couple of weeks earlier. 1435 White, 1436 Light Rose, 1437 Lavender, 1438 Purple, 1439 Crimson—Each 10c. per pkt.; set of five varieties, 40c.

Mrs. Sam Grenat, Miami Co., O., writes (4-28-13): "I am very much pleased with those fine Dahlias I got of you last Spring; they surely cannot be beat."

Asters

The Aster is, perhaps, the most popular annual flower grown in this country, and justly so on account of its ease of culture, season of bloom and lasting qualities both in the garden and as a cut flower. Seed can be sown in the house in shallow boxes (cigar boxes are good), and in the hot bed in March or in cold frames the first of April and later (about May 1st) in the open ground. Transplant the smaller varieties about eight inches apart in the row and such varieties as Semple's Branching, fifteen inches apart, the rows to be twelve inches apart. The richer the ground the better your flowers will be and water is very necessary if you wish to grow fine blooms.

Semple's Giant Late Branching

Without question, the finest Aster grown. It has size, vigor, fine stems, beauty of form and varied color to recommend it and, while not so early as many of the other varieties, it stands at the head of the list both for the home garden and as a florist's flower.

1400 Semple's Giant Finest Mixed Colors—All shades and colors. Pkt., 10c.; 1/8 oz., 20c.; 1/4 oz., 35c.

1401 Semple's Giant LavenderPkt., 10c.

1402 Semple's Giant Royal Purple.....Pkt., 10c.

1403 Semple's Giant Pure White.....Pkt., 10c.

1404 Semple's Giant CrimsonPkt., 10c.

1405 Semple's Giant Shell PinkPkt., 10c.

Collection of Semple's Giant Asters, 5 above sorts, 35c.

Mikado Pink

In type Mikado Pink belongs to the Comet class. Petals are narrow, very long and gracefully reflexed. The outer petals show to their full extent, while gradually toward the center they bend and curl across each other, forming a perfectly double flower.

It is a fine shade of shell-pink, and while it belongs strictly to the Comet class, the strongly growing, freely branching, long-stemmed plants quite resemble the branching sorts.

Vick's Mikado Pink comes into bloom between Queen of the Market, and Branching Asters. It therefore enables commercial Aster growers to have good pink Asters throughout the entire season. 1361 True Seed—Pkt., 10c.

Mikado White

A magnificent new Aster, same as Mikado Pink, except in color, which is pure glistening white. 1383—Pkt., 10c.

Vick's Pink Enchantress

A new variety of upright growth. The flowers are very double and are produced on good stems. The color is of the Enchantress Carnation shade, a very delicate pink. It is a mid-season variety. 1492—Pkt., 25c.

Peerless Pink

The introducers of this variety state that it is midway between Crego and the Late Branching varieties and of a beautiful shade of pink. It blooms a little ahead of the Late Branching and produces its flowers on long stems. 1406—Per pkt., 15c.

Queen of the Market

About two or three weeks earlier than most other Asters. They bloom profusely and are of graceful habit. Their shape is very similar to Semple's Giant Branching Aster. The perfect flowers are borne on long stems and in great variety of colors, making them extremely useful for cutting. A favorite sort. Height 1 1/2 feet.

1440 Mixed Colors—All colors in finest mixture. Pkt., 5c.; 1/8 oz., 15c.; 1/4 oz., 25c.

Separate Colors—1441 Scarlet, 1442 Pink, 1443 Crimson, 1444 Pure White, 1445 Dark Blue, and 1446 Light Blue—Each color, pkt., 5c.

Collection Queen of the Market Asters, 6 separate colors, 20c.

Daybreak

Flowers are very large and double, beautiful shell-pink color. A grand Aster for cutting purposes, growing 2 feet high. 1384—Pkt., 10c.; 1/4 oz., \$1.00.

Miss May Miller, Fairfield Co., Ohio, writes (5-18-13): "The flowers from your mixed bedding Petunias and mixed Phlox seed last year were the most beautiful I ever saw."



Violet King. Pkt., 10c.

Giant Ostrich Plume Asters

A very large-flowering class, the blooms of which are of most perfect shape; splendid for cut flowers. Resemble the Giant Comet Asters, as they have the same curled and twisted petals. However, the petals are longer, and the whole flower larger. Individual blooms often measure 4 to 6 inches in diameter. Plants of luxurious branching habit, with flowers on long slender stems. Height 2 feet.

1416 Giant Ostrich Plume, Mixed Colors—Embraces all the desirable colors in splendid mixture. Pkt., 10c.; $\frac{1}{2}$ oz., 25c.; $\frac{1}{4}$ oz., 45c.

Purity

Double flowers of a glistening pure white; similar to Daybreak in form and habit. **1386**—Pkt., 10c.; $\frac{1}{4}$ oz., \$1.00.

Giant Hohenzollern

This, while it is earlier than the late branching, is on a par with it in vigor and size of plants. The immense, fluffy flowers are borne on long stems and are certainly one of the finest types of Asters. There is a fine range of colors, and we list some of the most distinct. The mixtures contain many handsome colors. **1470 Light Blue, 1472 Dark Blue, 1473 White, 1474 Mixed**—Each, 10c. per pkt.

Giant Hohenzollern

Early Flowering—This beautiful Aster has the size of the later variety, but comes into bloom fully as early as Queen of the Market. It is a great advantage to have these Comet or Ostrich Plumed types so early. The flowers are very large, on long, wiry stems and are fine for cutting. We have the following colors: **1424 Light Blue, 1425 Dark Blue, 1426 White, 1427 Mixed**—Each, 10c. per pkt.

Violet King

The habit of growth of this Aster is similar to the Branching type, growing vigorously about 2½ feet high; has long, stiff stems. In form the flower is entirely new and distinct from any other variety; round, full and very large, many of the flowers measuring from 4 to 5 inches in diameter. Petals somewhat resemble the quilled varieties, but are much longer and broader. **1380**—Pkt., 10c.; $\frac{1}{8}$ oz., 50c.; $\frac{1}{4}$ oz., 75c.

Vick's New Early Branching Aster

The habit of growth is identical with its parent, the late Branching Asters, described below. Plants branch freely, are vigorous in growth. They produce flowers on long, stiff stems and luxurious foliage. The shape of the flower is round, and the size extraordinary large. A very valuable flower for commercial growers and the home garden.

The new Aster comes in two dainty and desirable colors—pink and white. Our stock of seed is true and comes direct from the original introducer. **1410 White**, per pkt., 10c.; **1411 Pink**, pkt., 10c.; **1412 White and Pink Mixed**, pkt., 10c.

Truffaut's Peony-Flowered Perfection Aster

The improved strains of this grand Aster are considered the finest in cultivation. It is one of the most beautiful and extensively cultivated classes, and it deserves to be, as the large, perfectly double flowers are fine. The petals are beautifully incurved. Very profuse bloomers, producing rich and beautiful flowers. We can recommend them very strongly, as we know they will delight you. Height 2 feet.

1390 Peony Flowered, Mixed Colors—Fine assortment. Pkt., 10c.; $\frac{1}{8}$ oz., 25c.; $\frac{1}{2}$ oz., 45c.

Peony-Flowered Perfection Asters in the following separate colors: **1391 Snow White, 1392 Brilliant Rose, 1393 Rich Crimson, 1394 Sky Blue, 1395 Dark Blue, 1396 Brilliant Scarlet**, at 10 cents per packet.

The Collection of 6 separate colors, one pkt. of each as named above, 50c.

- 1417 Ostrich Plume Snow White.** Pkt., 10c.
- 1418 Ostrich Plume Rose Pink.** Pkt., 10c.
- 1419 Ostrich Plume Light Yellow.** Pkt., 10c.
- 1420 Ostrich Plume Azure Blue.** Pkt., 10c.
- 1421 Ostrich Plume Lavender.** Pkt., 10c.
- 1422 Ostrich Plume Dark Blue.** Pkt., 10c.
- 1423 Ostrich Plume Crimson.** Pkt., 10c.

Collection of Giant Ostrich Plume Asters, 7 separate colors, 55c.

Giant Comet Asters

An ideal class for cut flowers, being not only most profuse bloomers, but each individual flower is borne on a stiff stem and resembles an exquisitely curled and twisted Japanese Chrysanthemum. Height 2 to 2½ feet.

1428 Giant Comet, Mixed Colors—A superb mixture, which includes all the best colors and shades in this class. Pkt., 10c.; ¼ oz., 25c.

1429 Giant Comet Snow White—Grand; pure white; flowers of immense size. Pkt., 10c.

1430 Giant Comet Crimson—Pkt., 10c.

1431 Giant Comet Light Blue—Pkt., 10c.

1432 Giant Comet Rose Pink—Pkt., 10c.

1433 Giant Comet Dark Blue—Pkt., 10c.

1434 Giant Comet, the Bride—Color—at first white, changing to a lovely pink, finally to a rose. For cut flowers, is one of the best. Pkt., 10c.

Collection Giant Comet Asters, 5 separate colors, 40c.

Rose Flowered

This is a very pretty type, somewhat resembling Queen of the Market, but larger, and has a greater range of colors. **1463 Mixed Colors**—Pkt., 10c.

Victoria Asters

The Victoria Asters resemble Truffaut's Peony-Flowered Asters very closely, except that the petals recurve to the edge of the flower instead of incurving to the center. Superb colors, elegant sort. 2 feet.

1388 Miss Roosevelt (Victoria)—The flowers of this new Aster are of a clear primrose tint, which changes to delicate flesh color, like the popular Gloire de Dijon rose. Fine cut flower. Pkt., 10c.; ¼ oz., 50c.

1459 Pink Beauty—Of upright growth, with flowers carried on long, strong stems. Of chrysanthemum shape with incurved inner and reflexed outer petals. Of beautiful, soft blush pink color. Pkt., 15c.

1450 Victoria Asters, Mixed Colors—Very fine. Pkt., 10c.; ¼ oz., 35c.; ½ oz., 60c.

1460 Dwarf Victoria Asters—Perfect flowers of large size, produced profusely. 10 inches high. Effective in beds and borders. Choice Mixed. Pkt., 10c.

Livingston's Exhibition Aster Collection

This magnificent collection contains the finest and most complete assortment of mammoth-flowering Asters it is possible to offer—the newest kinds, all colors, all varieties; early and late. The symmetrical globe-shaped and the fluffy Chrysanthemum sorts. They will produce a wealth of bloom, which for wonderful size, exquisite colors and variety of beautiful forms can not be surpassed.

- One large packet **Simple's Giant Branching**. Finest mixed.
- One large packet **Giant Ostrich Plume**. Finest mixed.
- One large packet **Giant Comet**. Finest mixed.
- One large packet **Truffaut's Peony Perfection**. Finest mixed.
- One large packet **Livingston's Superb Mixture of Giant Asters**. Together with the following grand Asters:

One packet **Vick's New Early Branching Asters**, and 1 packet of **New Violet King**, the grandest purple Aster ever introduced.

In the bag with each collection, we will enclose our leaflet, "**Aster Culture**," telling how to grow big Asters successfully.

All for 50c., postpaid. At regular rates these seeds would cost 80c.

Livingston's Superb Mixture of Giant Asters

Is absolutely unexcelled. A magnificent mixture, producing beautiful flowers, gigantic in size, gorgeous in colors, perfect in form.

This mixture includes the cream of all the Asters on this and the other two pages, together with many other sorts of the most beautiful forms and brilliant colors. Our special strain has been especially selected from the finest large sized double-flowering types. They will all grow about the same height. Livingston's Mixture of Aster Seeds will delight you; nothing better can be produced. Height about 2 feet. **1490**—Pkt., 10c.; three packets for 25c.; ¼ oz., 50c.



Giant Comet Aster. Pkt., 10c.

Mrs. Mattie Young, Madison Co., Ind., writes: "I wish to thank you many times for your promptness in all deliveries and for the very best seeds. Your seeds always give the very best satisfaction. We have been selling hot-bed plants for eighteen years and market gardening and our customers have always been satisfied with plants and vegetables, so I think there could be no higher recommendation for your seeds. I want to thank you for the Aster Seed you sent me. I had some of the most beautiful flowers I ever saw. Some of the largest I think. Wish to thank you again for all favors and will send more later as I send several through the year.

"P. S.: Please send booklets advertised on first page."

Alyssum
Little Gem
Pkt., 5c.



Arabis Alpina

1306—Dwarf perennial plant, covered with pretty white flowers in May. Thrives well in dry, sandy places. Pkt., 10c.

Acroclinium

1308 **Rose and White, Mixed**—An Everlasting. Yields a great number of flowers, which should be gathered the first day they open and dried in the shade for winter bouquets. Annuals; one foot. Pkt., 5c.; ½ oz., 15c.

Adlumia Cirrhosa

1310 **Mountain Fringe, or Allegheny Vine**—A beautiful, hardy climber, flowering the first season. Clusters of small rosy-lilac flowers and pale green feathery foliage. Pkt., 5c.

Ageratum (Floss Flower)

Very showy plants; bloom profusely the whole Summer; fine as cut flowers. Splendid for borders, ribbon beds, etc. Half hardy annuals. (See illustration.)

1312 **Perfection Blue**—Splendid large heads of deep amethyst blue. Compact growth, 9 inches high. Deepest colored of all Ageratums. Fine bedder. Pkt., 10c.; ¼ oz., 25c.

1314 **Princess Victoria Louise**—A very pretty dwarf sort. Bushes 5 to 6 inches high. Splendid combination with Sweet Alyssum. The color is a bright blue, with white center. Pkt., 10c.; 2 pkts., 15c.; ¼ oz., 25c.

1316 **Little Blue Star, New**—Exceedingly dwarf, bushy growth, not over 4 or 5 inches high. Densely covered with clusters of bright blue flowers. Very fine for edging. Pkt., 10c.

1318 **Imperial Dwarf Blue**—8 inches. Pkt., 5c.

1319 **Imperial Dwarf White**—8 inches. Pkt., 5c.

1320 **Mexicanum**—Lavender-blue. 1½ feet. Pkt., 5c.

1321 **Finest Mixed**—Splendid. Pkt., 5c.; ¼ oz., 15c.

Amaranthus

1333 **Fine Mixed**—Foliage brilliantly ornamental, producing a striking effect in the border as a background, or as a center of beds. Of the easiest culture. Annuals; 3 feet. Pkt., 5c.; ½ oz., 15c.; oz., 25c.

Anchusa Italica

1336—A hardy perennial, bearing large Forget-Me-Not-like, blue flowers in early Summer; flowering for several weeks and being a perfect mass of blue blossoms. Pkt., 10c.

Sweet Alyssum

One of the sweet-scented flowers that should always be in every garden. An easily grown annual; fine for beds, edgings or for cutting. In bloom all Summer and through the greater part of Fall.

1325 **Sweet Alyssum (Maritimum)**—One of most popular of our hardy annuals, both for cutting and for edgings. The pure white flowers are noted for their exquisite fragrance. Blooms continually from earliest Summer until hard frosts. Pkt., 5c.; ½ oz., 15c.; oz., 25c.

1327 **Little Gem, or "Carpet of Snow"**—A dwarf, very compact-growing variety, that, while only 6 inches in height, each plant will carpet a circle from 20 to 30 inches in diameter. From early Summer until very late Autumn the plants are a solid mass of snow-white flowers of delicious fragrance. Pkt., 5c.; ¼ oz., 15c.; ½ oz., 25c.; oz., 40c.

1329 **Saxatile Compactum (Golden Saxatile, or "Basket of Gold")**—A hardy perennial variety; its flowers are a most brilliant golden-yellow. Fine for rock-work. Nine inches high. Pkt., 5c.; ¼ oz., 20c.; ½ oz., 35c.

Abronia

Pretty trailing plants with verbena-like fragrant flowers. In bloom a long time. Adapted to beds, rock-work and hanging baskets. Annuals; good mixture; many varieties. 1300—Pkt., 5c.

Abutilon

(**Flowering Maple, or Chinese Bell-Flower**)—Universally admired for garden or house culture; flower the first season if seed is sown early; rapid growth; bear elegant bell-shaped flowers. Half hardy shrubs. 1302 **Mixed**—Pkt., 10c.

Anthemis Kelwayii

1338—Very hardy yellow Marguerite, succeeding in poorest soils. Pkt., 10c.

Giant-Flowered Antirrhinum (Snap Dragon)

This old favorite is one of the most beautiful and useful border plants of our gardens. Its very graceful flowers are borne on long spikes and in the greatest diversity of colors. The spikes of flowers are most brilliant and showy. Two feet.

1340 **Giant White**—Pure snow-white. Pkt., 10c.

1341 **Giant Rose**—Delicate rose-pink. Pkt., 10c.

1342 **Giant Scarlet**—Brilliant scarlet. Pkt., 10c.

1343 **Giant Yellow**—Pure soft yellow. Pkt., 10c.

1344 **Giant Queen Victoria**—New. Extra large, superb; pure white. Pkt., 10c.

1346 **Giant-Flowering Finest Mixed Colors**—An elegant assortment of innumerable rich colors and shades, including all the named varieties offered by us. Pkt., 10c.; 3 pkts., 25c.; ¼ oz., 30c.; oz., \$1.00.

Collection Giant Antirrhinums, 5 separate colors, 35c.

1347 **Dwarf Mixture**—Contains the very choicest colors. 12 inches. Pkt., 5c.; ¼ oz., 20c.

1348 **Tall Mixture**—The best colors; 2 feet. Pkt., 5c.; ¼ oz., 15c.



Aquilegia or Columbine

Exceedingly showy, early blooming hardy plants; always favorites, and of the easiest culture. The graceful, long-spurred flowers are very brilliant. They delight in the moister portions of the garden. The new varieties are greatly enlarged, and the range of colors and shades has been largely increased. Hardy perennial. 1½ to 2 feet.

1365 Chrysantha—This beautiful variety is a clear yellow, being an unusual color in Columbines, and of the long-spurred type. It also has the characteristic of flowering nearly all Summer. One of the best and very hardy. Pkt., 10c.

1368 Coerulea—The true Rocky Mountain variety, a beautiful blue and free-flowering. The State flower of Colorado. A splendid plant for the hardy border. Pkt., 10c.

1355 Haylodgensis—Hybrids of Coerulea. Long-spurred varieties in many colors. Pkt., 10c.

1354 New Double Hybrids—Large-flowering, long-spurred. Very beautiful, with several rows of cornucopia-like petals. Includes various charming shades of blue, yellow, lavender and white. Pkt., 10c.

1356 New Long-Spurred "Rose Queen"—A beautiful novelty, producing in great profusion very graceful, large-flowered, long-spurred flowers, shading from light pink to dark rose, with white center and yellow anthers. Very delicate and beautiful. Pkt., 15c.

1360 Double Varieties Mixed—A very choice assortment. Pkt., 5c.

1362 Single Varieties Mixed—All the best sorts and colors. Pkt., 5c.

Asparagus

1372 Plumosus Nanus (Climbing Lace Fern)—One of the prettiest house plants. Its feathery foliage is indispensable for bouquets and lasts a long time after cutting. Half hardy perennials. Pkt., (10 seeds), 15c.; 25 seeds, 30c.; 100 seeds, \$1.00.

1374 Sprengeri (Emerald Feather, or Abyssinian Parlor Fern)—This is one of the most beautiful plants for either pot culture or hanging baskets. Useful for bouquets. Grows freely all the year; a popular house plant. Pkt. (15 seeds), 10c.

Asperula

1377 Sweet Woodruff—This charming plant delights in moist, shady situations. Its fragrant leaves and flowers when dried impart an agreeable perfume. Perennials; one foot. Pkt., 5c.

Begonias

1523 Finest Mixed—Our strain contains a great variety of colors, both in flowers and foliage. A superior assortment. Pkt., 10c.

1524 Vernon—An elegant variety, with bright orange-carmine flowers and very dark leaves. Start the seed early in the house or greenhouse. Pkt., 10c.

1520 Tuberos Rooted, Best Double Mixed—Prize strain. Pkt., 25c.

1521 Tuberos Rooted, Best Single Mixed—Prize strain. Pkt., 25c.

1522 Begonia Rex (Ornamental-Leaved Varieties)—A collection of house plants without some of these elegant pot plants seems incomplete. The leathery leaves are bronze, red, silver and gold. Finest sorts. Pkt., 25c.

Balloon Vine—"Love in a Puff"

1496—Rapid growing, pretty annual climber; delights in a light soil and warm situation; produces white flowers, followed by seed vessels that look like small balloons; makes a fine porch screen. 10 feet. Pkt., 5c.; oz., 20c.



Coreopsis Golden Wave.



Balsam Apple and Pear

1518 Mormordica, Mixed—Very curious vine with ornamental foliage. Its large, golden-yellow fruit opens when ripe and shows its brilliant blood-red inside. Hardy annuals. 10 feet. Balsam Apple and Pear Mixed. Pkt., 5c.; ¼ oz., 10c.

Double Balsams

1500 Livingston's Premium Balsams, Finest Mixed—Our strain is unsurpassed. The large, double flowers are as fine as the most elegant Camellia. The size, fine form, varied and brilliant colors of our Premium Balsams are greatly admired. Pkt., 10c.; ¼ oz., 40c.

1502 Camellia-Flowered White—A superb variety. The flowers are extremely large, full centered, with reflex petals, pure snow-white. The most elegant of all Balsams. Pkt., 5c.; ¼ oz., 25c.; oz., 75c.

1504 Double Camellia-Flowered, Finest Mixed—A very choice assortment of all the best varieties and colors in these favorite Balsams. Pkt., 5c.; ¼ oz., 20c.; ½ oz., 35c.

1507 Double Lavender; 1509 Double Bright Scarlet; 1511 Double Dark Blood Red; 1513 Double Peach Blossom; 1514 Double Red Spotted White. Each of above separate colors, pkt., 5c.; oz., 60c. Collection Double Balsams, 6 separate colors, 25c. 1515 Double Mixed Balsams, pkt., 5c.; oz., 50c.

Calliopsis, or Coreopsis

One of the easiest grown annual flowers; can be used with fine effect anywhere—in beds, borders or masses. Blooms all the time. Sow the seed thinly when weather becomes warm and soil dry. 1 to 2 feet.

1530 Hybrida Superba—Very showy new hybrids in great variety of color, varying from pale yellow to rich orange and velvety brown. 1 foot high. Pkt., 10c.; ¼ oz., 25c.

1532 Golden Wave (Drummondii)—Bushy, compact plants covered with very large bright golden-yellow flowers with brown centers. Pkt., 5c.; ¼ oz., 10c.

1534 Coronata—Showy, large, pure yellow flowers. Pkt., 5c.; ½ oz., 15c.

1536 Mixed Tall Sorts—All choice sorts. Pkt., 5c.; oz., 20c.

1537 Mixed Dwarf Sorts—Fine for bedding. Pkt., 5c.; oz., 25c.

1539 California Sunbeams (Grandiflora)—An improved large-flowering strain. Fine light-yellow and brown blooms. Pkt., 5c.

1540 Lanceolata Grandiflora (Harvest Moon)—One of the grandest perennial plants. Fine in masses, or as cut flowers. The individual blooms are very large and of the richest golden yellow. Pkt., 10c.; ¼ oz., 20c.; oz., 60c.



Canterbury Bells. Pkt., 5c.

Campanula (Canterbury Bells)

This old-fashioned flower is a favorite with all. Stately and showy, and of the easiest growth. Hardy biennials.

1560 Livingston's Prize Mixture—An elegant mixture of all the finest classes and colors of single and double and "Cup and Saucer" varieties. Pkt, 10c.; 2 pkts., 15c.

1561 Calycanthema "Cup and Saucer"—Our mixture includes all the best colors and varieties. Pkt., 5c.

1563 Finest Double Mixed. Pkt., 5c. **1564 Finest Single Mixed.** Pkt., 5c.

1566 Pyramidalis—The Chimney Bell-flower, a hardy perennial flowering in late Summer. Finest mixed. Height, 3½ feet. Pkt., 10c.

1568 Carpatica—Beautiful free-flowering, hardy perennial; fine for groups and edgings. Blue and White, mixed. 9 inches. Pkt., 5c.

Candytuft (Iberis)

Candytuft is among the most highly prized of Summer flowers, and no garden is complete without a large quantity of it. Grows easily and blooms all the time until frost. Splendid for cut-flowers. Hardy annuals. 1 foot.

1547 Rose Cardinal—Very large umbel of bright rose-cardinal flowers, so prolific that a bed presents an unbroken sheet of bloom. Height 3 inches. Pkt., 10c.; ½ oz., 40c.

1550 Empress, or Giant Hyacinth-Flowered—An improved strain, producing immense trusses of pure white bloom, frequently measuring 4 inches in length by 2 inches through. Fine for bedding and cutting. Height 1 foot. Pkt., 10c.; ¼ oz., 15c.; ½ oz., 25c.; oz., 40c.

1545 Large-Flowering Dwarf, Mixed—Pkt., 10c.; ½ oz., 35c.

1546 Large-Flowering Dwarf, White—Pkt., 10c.; ½ oz., 35c.

1551 White Rocket—Compact spikes. Pkt., 5c.; oz., 15c.

1553 Odorata—Pure white; most fragrant. Pkt., 5c.; oz., 20c.

1554 Candytuft, Mixed Annual Sorts—Our mixture contains all the best varieties and colors. Pkt., 5c.; oz., 15c.

1556 Gibraltarica—A dwarf evergreen plant flowering in early Spring and Summer. Much used for rockeries, edging or in the foreground of perennial borders. A fine little plant worthy of more general cultivation. Lilac, shading to white. Pkt., 10c.

1557 Sempervirens—Similar to the above except pure white. Pkt., 10c.; ¼ oz., 25c.

Cannas

Cannas seem to be especially adapted to the American climate, as they do well everywhere. They grow nicely from seed, and will bloom the first Summer if started early. It is hard to describe the elegance of a fine bed of Cannas. Soak the seeds in warm water until they begin to swell; then sow them in a box in a sunny window or in the greenhouse. When up to the second leaf, transplant singly into pots and set out in the garden when the weather has become warm and settled.

1580 Large-Flowering French Hybrid Cannas, Mixed—Early flowering, and remarkable for large size and beauty of flower and foliage. This collection contains all that is best in Cannas. Pkt., 5c.; oz., 25c.

1582 Dark Leaved Cannas—This mixture contains the very choicest varieties we grow in the dark-leaved Cannas. Pkt., 5c.; oz., 20c.

Canna Plants—See page 118.

Calendula (Pot Marigold)

One of the easiest grown, most showy and free flowering, hardy annuals, producing a fine effect in beds of mixed borders; blooms all the time; fine for cut flowers. 1½ feet.

1529 Fine Double Mixed—Contains the choicest sorts. Pkt., 5c.; oz., 20c.

Canary-Bird Vine

1543—Easy-growing, free-blooming annual climber for house or garden. Bright yellow flowers resembling a canary bird with extended wings. 10 feet. Pkt., 5c.; ½ oz., 15c.

Cerastium Tomentosum

1574—A dwarf hardy perennial, with silvery foliage, small white flowers resembling single pinks. Pkt., 10c.

Cassia Chamaechrista

1575—A hardy annual, native of the middle west; bears long racemes of yellow flowers. Pkt., 10c.

Catchfly

(Silene)

1599 Mixed sorts and colors—A very showy, free-blooming annual. 6 in. Pkt., 5c.

Choice Carnations

Seeds may be sown under glass in the Spring, or in open ground, but must be protected in the Winter. Half hardy.

1586 Giant Marguerite—The flowers enormous; the colors most varied and brilliant, and they come into full bloom in four months from sowing, and continue until hard frosts. Our strains are semi-dwarf and strong growers. 1 foot high. Our mixture is splendid. Pkt., 10c.

1587 Marguerite Double White—Pure white, large flowers; stiff stalks. Pkt., 10c.

1588 Marguerite Double Yellow—Pkt., 15c.

1589 Marguerite New Half Dwarf Mixed—A grand new sort. Flowers are very large, double and fragrant. Pkt., 10c.; ¼ oz., 40c.

1590 Chabaud's New Giant Perpetual—Comes into bloom in a little over 4 months from seed; extra large size; fine range of colors; is very sweet-scented. Mixed colors. Pkt., 10c.

1591 Carnation, Giant of Nice—Blooms in four to five months from date of sowing the seed. The flowers are very large; colors varied; very free flowering. Pkt., 20c.



Great Marguerite Carnations. Pkt., 10c.

1585 Livingston's "Peerless" Carnation Mixture—All bloom the first Summer. A very choice mixture including all superb sorts. Pkt. (about 75 seeds), 15c.

1592 Fine Double Mixed. Pkt., 10c.

1594 Red Grenadin—For yielding a quantity of double red flowers, no outdoor Carnation can equal it. Pkt., 10c.

Celosia, or Cockscomb

Very attractive annuals. The crested heads of flowers resemble a cock's comb. The plumed heads are like great feathers. Sow the seed directly in the garden or start early and transplant. Make fine pot plants.

Comb Varieties

- 1608 **Queen of the Dwarfs**—Grows only about 8 inches high. Immense combs of perfect form; brilliant dark rose. Pkt., 10c.
 1609 **Glasgow Prize**—Large and very showy dark crimson combs. 9 inches. Pkt., 10c.; ¼ oz., 30c.
 1610 **Empress**—Combs of colossal proportions; rich crimson. Pkt., 10c.; ¼ oz., 50c.
 1611 **Finest Dwarf Mixed**—A choice mixture of all sorts and colors. Pkt., 5c.; ¼ oz., 25c.

Ostrich Plume Sorts

Very graceful. Handsome, pyramidal plants 3 feet high. Each branch gracefully tipped with brilliantly colored plume resembling an ostrich feather. (See illustration.)

- 1600 **Thompsoni Magnifica**—Mammoth blossoms of vivid scarlet; purple, blood-red, golden yellow, salmon, etc. 2 feet. Mixed colors. Pkt., 10c.; ¼ oz., 25c.
 1602 **Gold Plume**—Golden yellow. Pkt., 5c.
 1604 **Fire Plume**—Fiery scarlet. Pkt., 5c.
 Collection, the 3 new Ostrich Plume Celosias, listed above, 15c.

Centaureas

The various varieties of this popular annual include such favorites as the Bachelor's Buttons or Corn-Flowers, and Sweet Sultans, Old-fashioned flowers of easiest culture. 2 feet.

1616 **Bachelor's Buttons (Centaurea Cyanus)**—Our strain is especially fine. The true old-fashioned Bachelor's Buttons of your grandmother's garden. Also called Blue Bottle, Ragged Sailor, Korn Blume, etc. Mixed colors. Pkt., 5c.; ½ oz., 10c.; oz., 15c.

1617 **Emperor William**—Rich, deep blue Bachelor's Button. Pkt., 5c.; ½ oz., 10c.
 1618 **Double Varieties**—A comparatively new strain; about three-quarters of the flowers come double; many choice colors. Pkt., 5c.; ½ oz., 15c.

Giant-Flowering Sweet Sultans (Centaurea Imperialis)

The blooms are borne on long stems. Of the easiest growth; very showy in the garden all Summer long. (See illustration.)

- 1620 **Giant Mixed Colors**—An elegant assortment of colors. Pkt., 5c.; ¼ oz., 25c.; oz., 75c.
 1621 **Giant White**—Splendid for bouquets. Pkt., 5c.; ¼ oz., 25c.
 1622 **Giant Odorata**—Light blue; very large. Pkt., 5c.
 1623 **Giant Suaveolens**—The popular yellow. Pkt., 5c.
 1627 **Livingston's Choice Mixed Centaureas**—A grand mixture of all the above Bachelor Buttons and Giant Sweet Sultans. Pkt., 5c.; ¼ oz., 25c.; oz., 75c.



Celosia, New Ostrich Plume

White-Leaved Centaureas (Dusty Millers)

Silver-foliaged plants; extensively used for edgings, hanging baskets, etc.

- 1629 **Candidissima**—Very thick, broadly cut, slippery white leaves. 1 foot high. Pkt., 10c.
 1628 **Gymnocarpa**—Leaves fern-like; silvery gray color. Fine for borders. 1½ feet. Pkt., 5c.

Chrysanthemums

The annual sorts bloom throughout the Summer, while the perennial varieties are gorgeous in the garden every Fall. The plants grow from 1 to 3 feet in height.

Seeds of Annual Varieties

- 1632 **Double White**—Pkt., 5c. 1633 **Double Golden Yellow**—Pkt., 5c.
 1634 **Double Sorts Mixed**—All the most desirable colors. Pkt., 5c.; ¼ oz., 15c.
 1635 **Livingston's Choice Mixed Chrysanthemums, Single and Double Sorts**—Very desirable for the Summer garden; showy; free-flowering. Pkt., 5c.; ¼ oz., 15c.; ½ oz., 25c.
 1654 **Tricolor "Northern Star"**—Fine hardy annual, with large daisy-like flowers produced freely on long stems. Pkt., 10c.

Seeds of Perennial Varieties

- 1641 **Japanese Hybrids**—The best double-flowering varieties. Pkt., 15c.
 1642 **Frutescens (Marguerite, or Paris Daisy)**—Large, single white flowers. Pkt., 5c.
 1643 **Maximum (Triumph Daisy)**—Large, single, pure white, yellow center. Pkt., 10c.
 2433 **Shasta Daisy**—Pkt., 10c. For description, see page 107.
 1644 **Chrysanthemum Inodorum (Bridal Robe)**—New; pure white; extra fine. Pkt., 10c.

Cineraria

A favorite free-flowering greenhouse plant, with flowers of great richness and diversity of colors. Cinerarias bloom during the Winter and Spring months and can be planted out in Summer. The plants thrive best in a mixture of loam, leaf-mould and sand.

- 1648 **Livingston's Prize Mixture**—Contains only the richest and most beautiful colors; large. Pkt., 25c.
 1650 **Cineraria Maritima (Dusty Miller)**—Silvery white foliage; for edgings, ribbon beds, hanging baskets, etc. 1 foot. Perennial, but usually grown as an annual. Pkt., 5c.; oz., 40c.

Cobaea Scandens

A fine annual climber, often growing 15 to 25 feet in a season. Has handsome foliage and large bell-shaped flowers of a beautiful deep violet-blue. 1658—Pkt., 5c.



Centaurea Imperialis—Giant-Flowering Sweet Sultan.

Early
Flowering
Cosmos.
Pkt., 5c.



Coix Lachrymae

(Job's Tears)—Very ornamental plant, producing hard, shining seeds. Much used for bead curtains, raffia work, etc. 1660—Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Coleus

Beautiful foliage plants, both for greenhouses and bedding out in the garden. The striking colors and brilliant variegated leaves are much admired.

1662 **Extra Fine Mixed Hybrids**—A mixture made up of the finest and showiest varieties possible to obtain from specialists. Pkt., 15c.

1663 **Fine Mixed Hybrids**—Mixed seed from a very fine collection. Pkt., 10c.

1664 **New Large-Leaved "Fringed" Coleus**—The leaves are large, superbly variegated, deeply cut, lacinated, fringed. Colors and markings new and striking. Pkt., 20c.

Giant Double Daisies (Bellis Perennis)

A charming little plant for pots, edgings and borders. Sow the seeds very early and plants will bloom the first season and continue to bloom each season if given some protection during Winter. They do best in a rich soil and quite cool situation. Especially desirable for cemetery decoration. Perennial. Height about 6 inches.

1710 **Giant Longfellow**—A very desirable double sort; dark pink; flowers very large. Pkt., 10c.

1711 **Giant Snowball**—A large and very double pure white variety. The flowers make fine cut flowers, as the stems are long. Pkt., 10c.

1712 **Giant Mixed Daisies**—This assortment includes: Giant Longfellow, Giant Snowball and Giant Red, as well as many other finest sorts. Pkt., 10c.

1713 **Double White**—A very fine white variety. Pkt., 5c.

1714 **Double Rose**—Clear rose-pink. Pkt., 5c.

1715 **Fine Double Mixed**—A very choice mixture. Pkt., 5c.

Livingston's Mammoth Cosmos

None of our Autumn flowers are more prized than the Cosmos. The thrifty plants produce thousands of the most elegant blooms, in pure white, pink and crimson shades. As a decorative garden plant its value is inestimable, while as cut flowers for home decoration nothing is finer, especially as Cosmos are in bloom when other outdoor flowers are getting scarce. Plant the seed directly in the garden as soon as the settled Spring weather comes or you may start the plants early in a box in the house and transplant them. In the garden set the plants 1 foot to 18 inches apart. One of our most desirable and easy-growing annuals. 5 to 6 feet.

Early Summer-Flowering Cosmos

1668 **Dwarf Early-Flowering "Dawn"**—Coming into flower in July, continuing until frost. Can be grown in the North where the seasons are too short for other strains. Dwarf, compact growth—4 feet. Flower beautiful and large; petals broad, pure white, flushed with a delicate tinge of rose; profuse bloomer. Pkt., 5c.; ¼ oz., 15c.; ½ oz., 25c.

Dwarf Early-Flowering Mixed

1669 **Mixed**—Identical with above, but contains all elegant colors known in Cosmos. Pkt., 5c.; ¼ oz., 15c.; ½ oz., 25c.

Mammoth Perfection Cosmos

Giants of California—A magnificent strain. The individual flowers are of enormous size and the most perfect form, while the colors are richly brilliant. These represent the highest developed types in Cosmos. Will keep a week in water after being cut.

1672 **Mammoth Perfection, Mixed**—A superb mixture of every color and shade in these splendid Cosmos. Pkt., 5c.; ¼ oz., 10c.; oz., 30c.

1673 **Mammoth Perfection, Pure White**—A splendid large flower. Pkt., 5c.; ¼ oz., 15c.

1674 **Mammoth Perfection, Light Pink**—Blooms are truly superb. Pkt., 5c.; ¼ oz., 15c.

1675 **Mammoth Perfection, Crimson**—A rich and brilliant shade. Pkt., 5c.; ¼ oz., 15c.

Cyclamen

These elegant greenhouse plants have the most beautiful foliage and the richest colored flowers. Seed may be sown in the Spring and autumn. For large size blooms, substance and brilliant colors, our strains are unsurpassed.

1683 **Livingston's Superb Mixture**—Is our best strain; obtained by a continued selection of the choicest varieties of Cyclamen Persicum. The individual flowers are enormous in size; plants are profuse bloomers. The colors are rich and varied. (See illustration.) Pkt., 25c.

1684 **Cyclamen Persicum, Finest Mixed**—A choice assortment of varieties and colors. Pkt., 10c.

1680 **New Gigantic Orchid-Flowered Cosmos, Lady Lenox**—This gigantic Cosmos is the fore-runner of an entirely new race of Cosmos. It is of extraordinary size and beauty. Visitors to the floral exhibitions last Autumn were enraptured with its size and magnificent color. Flower 4 to 5 inches in diameter. Color a delightful shell pink, lighting up beautifully at night. 6 to 7 feet high. Splendid variety. Pkt., 10c.; 3 for 25c.; ¼ oz., 40c.



Livingston's Giant Cyclamen. Pkt., 25c.

Cypress Vine

Ipomoea Quamoclit—This is a beautiful rapidly growing annual climber, with delicate dark green finely cut fern-like foliage and masses of the most brilliant and graceful star-shaped flowers. The two shades, white and scarlet, are very striking. Planted by the side of a veranda, tree or stake, and trained properly, nothing is prettier.

1686 **Pure White**—Pkt., 5c.

1687 **Bright Scarlet**—Pkt., 5c.

1689 **Finest Mixed**—A mixture of Pure White and Bright Scarlet. Pkt., 5c.; ¼ oz., 15c.

Dahlias from Seed

Dahlias are easily grown from seed and bloom the first season. The earlier they are started the better, which can be done nicely in a box in a sunny window or the greenhouse. Some specimens grown from seed are fully equal to many of the named sorts, and there is always the chance of getting some entirely new varieties. The Single Dahlias are being planted more extensively every year; they are quick and profuse bloomers, and their colors are especially rich and brilliant.

Dahlia Bulbs. See page 115.

Seeds of Single Dahlias

1693 Twentieth Century or Orchid-Flowered—A truly exquisite single Dahlia. Has created a sensation everywhere. Individual flowers are 5 to 8 inches across. Innumerable colors, that have the sheen of velvet. We cannot describe their elegance. Pkt., 10c.

1694 Striped and Spotted Varieties—A very beautiful class, with finely cut foliage and large single flowers of perfect form in many brilliant colors. Pkt., 5c.

1695 Large-Flowering Single Mixed—Splendid assortment of single-flowering varieties. Pkt., 5c.

Seeds of Double Dahlias

1698 Large-Flowering Choicest Double Mixed (See illustration)—This elegant assortment of seed is saved from round, double flowers; many beautiful colors. Pkt., 10c.

1700 Pompon Varieties, Fine Mixed—These have small, round, perfectly double flowers; many beautiful colors. Pkt., 5c.

1701 Double Tom Thumb, Superb Mixture—A splendid strain, growing about 18 inches high; very double; fine for beds. Pkt., 10c.

1702 Cactus Varieties, Choicest Mixed—Most popular at the present time; distinct and elegant; petals pointed; blooms perfectly double. Pkt., 10c.

1705 Livingston's Superb Dahlia Mixture—This splendid assortment embraces every variety of Dahlias, both single and double, described on this page, as well as many other fine sorts. Will make an elegant bed at small cost. Pkt., 15c.

Datura (Trumpet Flower)

Very attractive, bushy plants of easy growth, that during the whole season are covered with elegant, fragrant, trumpet-shaped flowers. Hardy annual. 3 feet.

1720 Cornucopia (Horn of Plenty)—A magnificent variety. The blooms average 8 inches long by 5 inches across; the color is white inside, while the outside is most beautifully marbled with royal purple. Pkt., 5c.; ¼ oz., 20c.

1722 Finest Double Mixed—A very choice assortment of all the best colors and varieties of this effective annual. Pkt., 5c.

Delphinium

Hardy Perennial Larkspurs—One of our most brilliant and effective hardy garden plants. Of late years the size and colors of the flowers have been wonderfully improved. Persistent bloomers, even in the dryest seasons. 2 to 4 feet.

1726 New Giant-Flowering Hybrids—These magnificent hybrids, the grandest of Delphiniums in existence, produce splendid spikes of immense flowers, semi-double and double. Flower spikes are from 2 to 5 feet in length. The colors are very beautiful, ranging from pure white through all the shades of lavender and blue. Mixed colors. Pkt., 25c.

1728 Elatum (Giant Bee Larkspur)—Clear blue flowers; 3 feet. Pkt., 5c.

1730 Elatum Hybridum—Finest mixed. Pkt., 10c.

1732 Formosum—Elegant spikes of the richest dark-blue flowers, with a white center; especially fine for cut-flowers. 4 feet. Pkt., 5c.

1733 Formosum Coelestinum—Light sky-blue flowers, with darker centers; a very fine variety. 4 feet. Pkt., 10c.

1735 Zalii—The splendid spikes of bloom are a lovely shade of sulphur-yellow. 4 feet. Pkt., 10c.

1737 Mixed Chinese Varieties—This elegant mixture contains a great variety of shades, from pure white to gentian-blue. The plants are brilliantly showy. Pkt., 5c.

Annual Delphiniums. See Larkspur, page 97.



Choice Double Dahlias Mixed. Pkt., 10c.

Digitalis (Foxgloves, or Witches Fingers)

The Foxglove, in common with all the hardy perennials, is being planted more extensively each season. The large tube-like flowers, which are produced so freely in beautiful spikes, add much to our hardy beds and borders. Being of the easiest growth, and doing finely in partially shaded situations, they fill in many gaps most advantageously, 3 feet.

1782 Gloxiniaeflora—A beautiful class, with spotted flowers. We offer a mixture of the finest varieties. Pkt., 5c.; ¼ oz., 20c.

1784 Grandiflora—A variety that grows about 2 feet in height. A very fine yellow in color. Pkt., 5c.; ¼ oz., 20c.

1786 Monstrosa (Mammoth Foxglove)—A grand strain. The top flowers of the spikes are of enormous size. Our assortment of colors is very fine. Splendid mixed. Pkt., 5c.; ¼ oz., 30c.

1788 Purpurea, Finest Mixed—This is the common Foxglove so generally known. Contains many fine varieties. Pkt., 5c.; ¼ oz., 15c.

Miss F. Holzhauser, Wood Co., Ohio, writes (1-27-13): "I had a most beautiful flower bed last year, the seeds coming from Livingston's. I was very much pleased."

Miss J. C. Burgen, Erie Co., N. Y., writes (July 30, 1913): "Regarding a small sample of Sweet Peas which you sent me this Spring. I want to say they are the handsomest Sweet Peas I ever saw. The red, white and pink ones blossomed nearly all double with three flowers on nearly every stem. No one has anything like them that I have seen."



Giant Fringed and Ruffled Pinks. Pkt., 15c.

Dimorphotheca Aurentiaca

1718 **Golden Orange Daisy**—One of the newer annuals from South Africa. Grows 10-12 inches high, with pretty daisy-like flowers. Orange-yellow. Pkt., 10c.

Dolichos (Hyacinth Bean)

A splendid annual climber, with hyacinth-like clusters of purple and white flowers, which are followed by exceedingly ornamental seed pods. Is of most rapid growth and stands Summer heat well. Sow the seeds in the garden in May where the plants are to remain.

1796 **New White Bush Dolichos**—Strong, healthy plants, 18-30 inches tall according to soil, carry an abundance of elegant flower spikes 12 to 16 inches long, well above the foliage. Individual flowers measure about an inch across and resemble a pea flower. As the lowest flowers on stalks drop off, they are followed by ornamental creamy-white seed pods. Bush Dolichos succeed anywhere, are highly ornamental planted singly or in rows and bloom continuously from middle of July until frost. Pkt., 10c.

1790 **"Daylight"**—A splendid variety from Japan. Large snow-white Wistaria-like racemes, that are most fragrant, followed by attractive silver-white seed pods. A very showy and rapid-growing sort. Pkt., 5c.; ½ oz., 15c.

1792 **Purple Soudan**—A most decorative climber. The twining stems are of the most intense purple, while the beautiful spikes of bloom are of the richest shade of brilliant rose. Pkt., 5c.; ½ oz., 10c.

1794 **Finest Mixed**—Very choice mixture of all the best climbing varieties. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 50c.

Dianthus or Pinks, New and Choice Varieties

This elegant family contains many of the most valuable and popular flowers in cultivation. All the sorts classed as annuals may be sown directly in the garden as soon as danger from frost is past, and will in a short time become a mass of bloom, and so remain all Summer. Elegant as cut flowers for bouquets, as the stems are good. Grow about 1 foot high, and are of easiest culture.

Double Annual Pinks

1740 **New Giant Fringed and Ruffled Pinks, Double Marvelous or Japanese Fringed Pinks** (Mirabilis Fl. Pl.)—This remarkable and perfectly distinct new strain produces large, perfectly double flowers on stiff, upright stems. The petals are deeply cut into fine strips of thread-like fringes for about half their length, and are twisted in all directions, presenting a novel aspect. In color, they vary greatly, having all shades from pure white to deep purplish-red. Pkt., 15c.; 2 pkts., 25c.

1742 **Double Royal Pinks** (Nobilis Fl. Pl.)—A splendid new double-flowering strain of Royal Pinks. The flowers range in colors from blood-red to pure white, and are beautifully frilled and fringed. The enormous blooms are especially adapted for cutting, the stems being long. Vigorous growers and abundant bloomers. Pkt., 10c.

1744 **Laciniatus (Double Fringed Pinks)**—Magnificent flowers; very large; double. Mixed colors; striped and fringed edges. Pkt., 5c.; ¼ oz., 25c.

1746 **Heddewigi (Double Japan Pink)**—Flowers very large; perfectly double; many elegant colors and shades, from delicate rose to richest crimson. Pkt., 5c.; ¼ oz., 20c.

1752 **Imperialis (Double Imperial Pink)**—Charming varieties of these popular pinks. Our mixture includes a great number of colors. Pkt., 5c.

1754 **Snowball**—Double white, fringed flowers; fine variety. Pkt., 5c.

1756 **Fireball**—A brilliant dark scarlet; plants grow dwarf and bushy; is very fine for bedding or cut flowers. Pkt., 5c.; ¼ oz., 25c.

1758 **Chinensis (China or India Pink)**—Our mixture includes all best colors and shades. Pkt., 5c.; ¼ oz., 15c.; oz., 50c.

1760 **Livingston's Mixture of Double Pinks**—A splendid combination of all the best varieties. Pkt., 5c.; ¼ oz., 25c.

Hardy Garden or Clove Pinks

This splendid class of hardy perennial Pinks should be in all gardens. They have the delightful clove fragrance.

1778 **New Double Large-Flowering Grass, or Spice Pinks** (Plumarius semperflorens, Fl. Pl.)—One foot high. The flowers, which are beautifully fringed, are much larger and more double than the old varieties, while the colors are far richer, including a large variety of colors and markings not known to the old-fashioned Pinks. Many are exquisitely spotted and splashed. They emit a delightful, sweet-scented spicy odor. Perfectly hardy, requiring only the ordinary culture of Pinks. They increase in size and beauty every year. Bloom profusely during the Spring and early Summer. Pkt., 25c.

1772 **New Single Large-Flowering Grass, or Spice Pink, Mixed**—Same as above, only single. Pkt., 5c.

1773 **Plumarius (Pheasant's Eye Pink)**—A single hardy Pink; fringed edge, white flowers with dark centers. Pkt., 5c.

1774 **Double Clove Pink (Plumarius flore pleno)**—Double and semi-double varieties. Many colors; of strong clove fragrance. Pkt., 10c.

1776 **Cyclops Hybrids**—Superb, double-flowering red and scarlet varieties; very fragrant. Pkt., 15c.

1777 **Livingston's Mixture of Hardy Garden Pinks**—A magnificent strain of hardy garden pinks containing all the sorts described on this page and many new varieties not listed by us. Choicest single and double sorts of bright and brilliant colors make this mixture one of the most desirable for the hardy garden. Pkt., 10c.; 3 pkts., 25c.; ½ oz., 50c.



OLD FASHIONED HARDY GARDEN PINKS

Erigeron Speciosa

1770—Hardy perennial, bearing pretty blue flowers for a long period. Grows about two feet high. Useful in hardy border. Pkt., 10c.

Eschscholtzia (California Poppies)

Most attractive annuals of the easiest culture, their flowers being very bright and showy. They are splendid for bedding, massing or ribbon-work. The plants grow bushy and about 1 foot high. They are favorites everywhere. Bloom profusely from Spring sown seed. (See illustration.)

1804 "The Golden West"—Early and continuous bloomer. Magnificent flowers of gigantic size. Color intense shining yellow and orange. The state flower of California. Pkt., 5c.; ¼ oz., 15c.

1806 Finest Double Mixed—A splendid assortment of colors. Pkt., 5c.; ¼ oz., 15c.; oz., 50c.

1808 Finest Single Mixed—All the best varieties. Pkt., 5c.; oz., 25c.

1811 Bush Eschscholtzia (Hunnemannia)—A fine new perennial plant; forms a bushy shrub 2 feet high, producing large cup-shaped flowers on stems 12 inches long; of clear jonquil yellow and vivid bright orange stamens. Begins to bloom in July from Spring-sown seed. Pkt., 5c.

Feverfew (Matricaria)

1824—Free-flowering annuals about 1 foot high; very compact and bushy. Splendid for beds and borders; also fine as cut flowers or for pots. The double, white blooms are very useful in bouquets. Pkt., 10c.

Echeveria (Hen and Chickens)

These plants are easily grown from seeds. Our mixture contains a great variety, both in shapes and colorings.

1797 Mixed—Pkt., 10c.; 3 pkts., 25c.

Echinacea Purpurea

1802—A fine, hardy perennial, growing 2 to 3 feet high, flowering from July to September. Pink daisy-like flowers with large "cone" in center. Pkt., 10c.

Euphorbia

Easily grown annuals with very ornamental foliage; very fine in mixed beds.

1814 Variegated (Snow on the Mountain)—Foliage is veined and margined with white. 2 feet. Pkt., 5c.



Eschscholtzia (California Poppies).
Pkt., 5c. and 10c.

Fuchsias (Lady's Eardrops)

These well-known plants will flower the first season from seed, if started early. As house plants for Winter they are always general favorites. The seed we offer is saved from a fine collection of double and single sorts.

1826 Best Sorts Mixed—Pkt., 15c.
Four O'Clock—Marvel of Peru, page 98.
Forget-Me-Not—See Myosotis, page 100.

Gaillardia (Blanket Flower)

There are Annual and Perennial Gaillardias. The Annual sorts bloom all Summer and Autumn, and are noted for the profusion, size and brilliancy of their flowers; excellent for beds and borders. The Perennial varieties are grand and wonderfully effective in the hardy borders, their especial value being constant blooming from July until hard freezing weather. They require no Winter protection, although applications of manure increase their strength. If the seed is sown early they will begin flowering at mid-Summer. Both classes are splendid as cut flowers. They are of the easiest culture, doing finely anywhere. Height 2 feet.

1830 Finest Single Annual Mixed—A very fine assortment of many brilliant colors. Pkt., 5c.

1832 Finest Double Annual Mixed (Lorenziana)—All the best double-flowering varieties in richest mixture. They bloom freely all the season. Splendid for bouquets. Pkt., 5c.

1834 Grandiflora Hybrids, Finest Mixed—One of the most elegant perennials; is in continuous bloom from June until frost. The enormous flowers are a magnificent combination of red and yellow. Splendid to cut for vases. Pkt., 5c.

1836 Grandiflora Compacta—A compact-growing variety similar in bloom to the Grandiflora Hybrids, but only grows about 15 inches high. Its flowers are of the richest colors, and the stems are long. A very fine variety. Pkt., 5c.

1838 Grandiflora Semi-Double—Very large flowering; same as both the preceding, except that the greater part of the flowers are semi-double. The ray florets from the center of the blooms are in two or three rows, and often tubular or broad and lacinated. Colors range from light to deep golden yellow, often tinged with wine-red. A most effective variety. Pkt., 10c.



Gaillardia Grandiflora. Packets, 5c. and 10c.



Heliotrope. Pkt., 10c.

Heliotrope

Easily raised from seeds, Spring plantings giving fine Summer blooming plants. As a bouquet flower always a favorite.

1880 Lemoine's Giant Hybrids—Grand flowers, double the size of the older sorts. Bushes compact, about 18 inches high; heads of mammoth blossoms often measure a foot across. Deliciously fragrant. Seed sown in the Spring will produce flowering plants by July, which continue in flower until frost. Mixed, including purple, white, lavender and blue. Pkt., 10c.

1882 Dark Varieties Mixed—All best dark blue and lavender shades in mixture. Pkt., 5c.

1884 All Sorts Mixed—In best assortment; all shades, both light and dark. A very desirable strain. Pkt., 5c.

Hardy Garden Heliotrope—See *Valeriana*, page 112.

Hollyhocks

Hollyhocks require a rich soil, but it must be well drained. We give especial attention to this flower, and you will find our strains of seed of the finest quality. Once thoroughly established, they bloom stronger and more brilliantly every year. Seeds sown early, and the young plants transplanted several times, will bloom the same season; July and August sown seed, following year. 5 to 8 feet.

Livingston's Prize Hollyhocks

These are the largest flowering and most perfectly double Hollyhocks we have been able to procure after many years of selection of only the best varieties. The colors are rich and brilliant, the plants free from disease, as well as very robust and strong growers; in fact, we believe our strain to be unsurpassed in every respect. We offer several separate colors and our best mixture.

- | | |
|---|--|
| 1896 Double Black. Pkt., 10c. | 1900 Double Rose Pink. Pkt., 10c. |
| 1897 Double Lemon Yellow. Pkt., 10c. | 1901 Double Crimson. Pkt., 10c. |
| 1898 Double White. Pkt., 10c. | 1904 Double Scarlet. Pkt., 10c. |
| | 1905 Double Salmon. Pkt., 10c. |

Livingston's Prize Mixture

This is our best mixture. It is composed exclusively of the finest double-flowering varieties. It contains not only the above elegant colors, but also innumerable other shades. **1908**—Pkt., 10c.; ½ oz., 25c.

Mammoth Allegheny

Attractive variety. Its lovely arranged, fringed and transparent petals look as if they were made from the finest China silk. The individual flowers are enormous in size, and in color they range from the palest pink to deepest red. In form the flowers are double, semi-double and single. Plants are in full bloom from July until frost. **1910**—Pkt., 10c.; ¼ oz., 30c.

Geraniums

These popular plants are most easily raised from seed, and if started early will produce flowering plants the first Summer. Start in the house and transplant to the garden as soon as the weather is warm. You will find that the varieties we offer are of very superior quality.

1842 Finest Mixed—Pkt., 10c.

1843 Large-Flowering Double Varieties—Splendid strain; seed is saved from the finest double sorts. Pkt., 25c.

1844 Variegated-Leaved Sorts—Bronze, gold, silver and tri-colored foliage varieties. Elegant collection. Pkt., 15c.

1845 Lady Washington—These are the well-known rich-colored show Pelargoniums. Our mixture includes all the best varieties. Pkt., 20c.

1846 Apple-Scented—The old-fashioned favorite apple-scented Geranium. Pkt., 10c.

Godetia (Satin Flower)

An attractive and very beautiful hardy annual. In full bloom all Summer, so profuse that the foliage is almost hidden by the large, wide-open flowers; of shining-satiny texture and the most delicate and brilliant colors. Our mixture contains all the best varieties. 1½ feet.

1854 Mixed—Pkt., 5c.

Ornamental Gourds

1860 Livingston's Extra Fine Gourd Mixture—A splendid mixture of Gourds, including all the ornamental kinds, both large and small, of various shapes and colors, such as Japanese Nest Egg, Mock Orange, Dish Cloth, Turk's Turban, Dipper, Serpent, Bottle, Warty Gourd, Hercules' Club, and many other curious and unique varieties. Gives unlimited pleasure to both elders and children. Many odd and fantastic shapes. Pkt., 5c.; ½ oz., 20c.; oz., 35c.

1862 Bath-Sponge, or Dish-Cloth—A most admirable natural dish-cloth is furnished by the peculiar sponge-like lining of this fruit. Pkt., 5c.; ½ oz., 20c.; oz., 35c.

1865 Dipper—Used for dippers; 9 to 12 inches long; hold from 1 to 4 pints; will last for years. Pkt., 5c.; oz., 20c.

1867 Hercules' Club—Longest of all; white. Pkt., 5c.

1868 Japanese Nest Egg—Exactly like a hen's egg in shape, color and size. Pkt., 5c.; ½ oz., 15c.; oz., 25c.

1871 Snake, or Serpent—Has long fruits, sometimes 5 feet, and striped like a serpent. Pkt., 10c.; 3 pkts., 25c.

1872 Sugar Trough—Holds 4 to 10 gallons; hard, thick shells; very light, strong and durable. Pkt., 5c.; oz., 15c.

Gypsophila Paniculata (Baby's Breath)

An elegant hardy perennial plant that should be in every garden. It is not only pretty in beds, but its delicate little flowers, produced in feathery white panicles, and branching foliage lend a daintiness to bouquets that is most elegant. Its sprays are much used in making up bouquets of Sweet Peas. **1878**—Pkt., 5c.



Mixed Annual Hollyhocks. Pkt., 10c.

New Annual Everblooming Hollyhocks

These glorious new hybrids may be grown from seeds and will flower the same year as quickly as any garden annual. The plants can be treated as annuals. The seeds may be started in the house, or in hotbeds, frames, etc., in March or April. Plants transplanted by the beginning of May in the open ground will commence to flower about end of July, ten days after Hollyhocks that have been treated as biennials. Plants flower uninterruptedly until very late in season. They branch out freely and grow to a height of 10 feet.

1913 **Mixed Annual Hollyhocks**—Pkt., 10c.; ½ oz., 40c.

Hibiscus (Marshmallow)

Tall growing; especially adapted to backgrounds and shrubby borders. Of easiest culture, and bloom the entire season. Plants grow 4 to 5 feet tall.

1890 **Africanus**—A very choice annual variety. Flowers yellow, with maroon center. Pkt., 5c.

1892 **Crimson Eye**—The beautiful white flowers, with deep crimson centers, are of immense size, often 6 to 7 inches in diameter. Perfectly hardy. Pkt., 5c.

Humulus (Japanese Hop)

Splendid climber. Has handsome foliage, which resembles that of the Common Hop Vine. Never suffers from heat or attack of insects; easiest culture.

1920 **Japonicus**—Has bright green foliage. Pkt., 5c.

1922 **Silver-Leaf Japanese Hop**—Unusually beautiful variety of rapid-growing Summer climbing vine. Leaves deep green, beautifully striped and blotched with silvery white and gray. Will reach a height of 20 to 30 feet in three or four weeks' time. Pkt., 5c.; ½ oz., 15c.

Helichrysum (Straw Flower)

A hardy annual of the easiest culture; one of our best "Everlasting" flowers, the dried double blooms being very handsome in Winter bouquets. 2 feet.

1888 **Mixed**—Pkt., 5c.; ¼ oz., 20c.

Impatiens (Zanzibar Balsam)

A very pretty plant, for house culture, and the garden as well. Its flowers are very rich colored. They are borne in great abundance, and the plants are continuous bloomers. Tender perennial. 2 feet. 1928—Pkt., 10c.

Holstii Hybrids

Very handsome Zanzibar Balsam recently discovered in Africa. It forms bushes 1½ to 2 feet high and resembles above, but surpasses it in its quicker and more vigorous growth, and its larger and brighter colored flowers. Seed sown indoors in Spring will form plants ready to set out in May and will bloom continuously from June till frost. Colors, red, violet, pink and white. 1930 **Mixed**—Pkt., 15c.



Kochia. Pkt., 10c.

Kochia Tricophylla

1934 **Summer Cypress, or Burning Bush**—This splendid annual plant grows very quickly from seed sown in the open ground as soon as the weather permits in Spring. The plants always make attractive globe-shaped bushes, as large sometimes as 3 feet high and 2 feet across in one season. Leaves slender and of a light pea-green color until September, when they turn to carmine and blood-red; at the same time the ends of the shoots are thickly set with small bright scarlet flowers, and produce a very striking effect. Pkt., 10c.; ¼ oz., 25c.

The Kudzu Vine

1936 **Pueraria Thunbergiana**—This wonderful climber is of Japanese origin and is the most luxuriant and rapid-growing vine known in horticulture. It will grow 8 to 10 feet the first year from seed, and after becoming established will produce vines 50 feet high in a season, sometimes growing 12 inches in a single day. Produces a tuberous root which is perfectly hardy everywhere. Foliage is very luxuriant, quickly forming a dense shade. Unequaled for porches, arbors, trellises, etc. Pkt., 10c.; 3 pkts., 25c.



Hibiscus "Crimson Eye." Pkt., 10c.

Ice Plant (Mesembryanthemum)

A very pretty trailing annual that has fleshy, wax-like leaves, which have the appearance of being covered with ice crystals. Splendid for rock-work, vases or hanging baskets. Flowers are white. Start seed in the house. 1925—Pkt., 5c.

Kenilworth Ivy

1932 **Linaria Cymbalaria**—A hardy perennial trailing plant suitable for vases, etc. Adapted to shady locations. Easily grown from seed. Lovely little lavender and purple flowers and an exquisite foliage. Pkt., 10c.

Larkspurs

(Annual Delphinium)

These popular garden flowers have been greatly improved of late in color and size of blooms and habit of plants. Below we offer the best of the newer varieties. Hardy annual.

1944 **Stock-Flowered Larkspur**—These tall-growing and branching Larkspurs produce the most brilliantly beautiful spikes of double flowers; continuously in bloom all Summer. All colors mixed. Pkt., 5c.

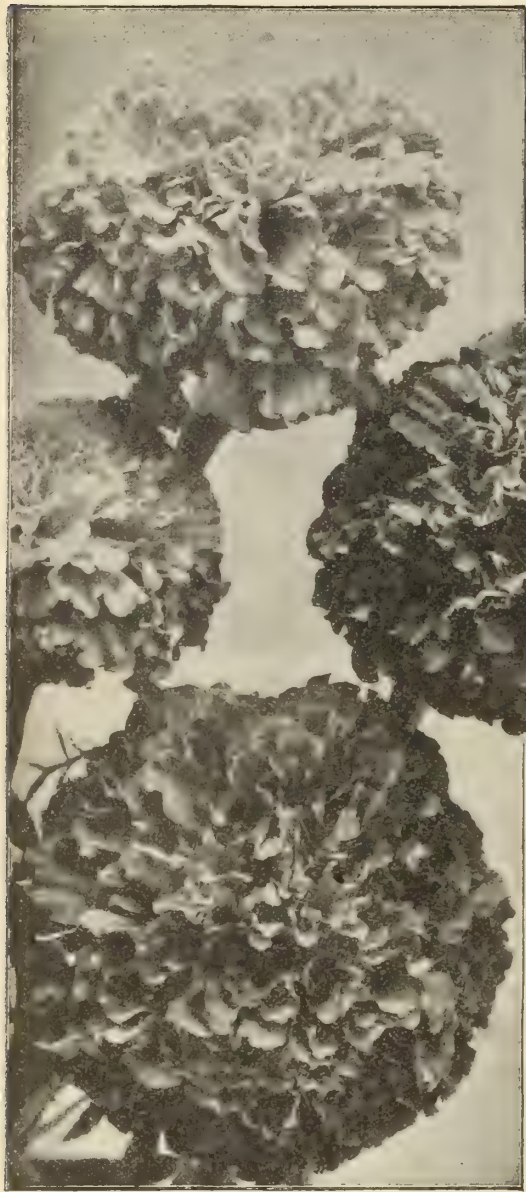
1947 **Dwarf Hyacinth-Flowered**—Resembles a Dutch Hyacinth in style of bloom. Our mixture includes a very fine range of colors and shades. Pkt., 5c.; ¼ oz., 10c.

1949 **Giant Hyacinth-Flowered**—Tall, a superb class. The splendid flowers are very large, very double and of various beautiful colors, shadings and markings; long spikes of bloom like immense Hyacinths. Pkt., 10c.; ½ oz., 25c.

1951 **Double Dwarf Rocket**—A most choice mixture of varieties, that grow about 1 foot in height. Pkt., 5c.; ½ oz., 15c.

1953 **Double Tall Rocket**—This well-known mixture embraces the very choicest colors in the taller growing sorts. Pkt., 5c.; ½ oz., 15c.

Perennial Larkspur—See Delphinium, page 93.



Livingston's Superb African Marigolds. Pkt., 5c.

French Marigolds

1934 Legion of Honor (Little Brownie)—Handsome single variety, covered with a multitude of flowers. In color it is a velvety golden yellow blotched with purple. 1 foot. Pkt., 5c.; $\frac{1}{4}$ oz., 20c.

1988 Tall Double Mixed—A splendid assortment of all the best colors in striking combinations. 2 $\frac{1}{2}$ feet. Pkt., 5c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.

1990 Dwarf Double Mixed—Similar mixture to No. 1980 in colors, but the plants grow much dwarfer. 1 foot. Pkt., 5c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.

Marvel of Peru (Four O'Clocks or Mirabilis)

This old-fashioned favorite is one of our easiest grown annuals. The plants are bushy, about 2 feet high, and completely covered all Summer with large, showy, very fragrant blooms.

1995 Variegated—The brilliant flowers, in many colors, contrast finely with the golden-hued foliage. Pkt., 5c.; oz., 15c.

1997 Finest Mixed—An elegant assortment of these old-fashioned favorites. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.

Lantana

Popular, free-blooming and very rapid-growing plants with flower heads of various colors, which are continually changing; emit a powerful aromatic perfume, plants are completely loaded with blossoms, succeeded by berries, which, when ripe, turn deep blue. Used largely for bedding out in Summer and are also fine Winter-blooming plants. Start seeds in the house or hot-bed. Tender perennial. 1 $\frac{1}{2}$ feet. **1938 Mixed**—Pkt., 5c.; $\frac{1}{2}$ oz., 20c.

Lavender

(*Lavendula vera*, true Lavender)—Popular sweet-scented hardy perennial; fine for mixed border. 3 feet. **1957**—Pkt., 5c.; $\frac{1}{4}$ oz., 15c.

Lobelia

Exceedingly pretty, profuse blooming plants, of great value both in the garden and for hanging baskets, window boxes and vases; especially prized for edgings of beds and borders. Plants grow about 6 inches high. They are treated as annuals and are of the easiest culture.

1958 Crystal Palace Compacta—Best dark blue sort for edgings and carpet bedding. Pkt., 10c.; $\frac{1}{4}$ oz., 50c.

1960 Emperor William—A brilliant, compact-growing light blue; a very fine variety. Pkt., 5c.

1962 Gracilis—Fine for hanging baskets, vases and window boxes. Light blue. A trailing variety. Pkt., 5c.

1964 Mixed Compacta Sorts—A very fine mixture of all the best varieties for edgings and bedding. Pkt., 5c.

Lychnis

Few plants produce as bright flowers and bloom as continuously as Lychnis. A hardy perennial, but flowers the first season from seed if same is sown early. 2 feet.

1971 Finest Mixed Hybrids—Plants are compact and bushy; colors include all the most brilliant shades, from pure white to deepest red. Pkt., 5c.

Livingston's Superb Marigolds

These old-fashioned favorites are annuals of the very easiest cultivation. Both the French and African classes are very effective; the former have the small, velvety flowers, in pretty combinations of yellow, brown, maroon and striped effects; the African sorts are the enormous flowered ones, in very showy orange and lemon shades. (See illustration.) Both kinds are most popular for beds and borders, and planted in large blocks are very attractive. They bloom profusely all Summer. Start the seed early in a box in the house, or plant directly in the garden when the weather is warm. Fine as cut flowers. French sorts make nice pot plants.

African Marigolds

1974 Mammoth Lemon Queen—Flowers very large; double; rich lemon color. 3 feet. Pkt., 5c.; $\frac{1}{2}$ oz., 25c.

1976 Mammoth Orange Prince—Enormous double blooms, of an intense, very striking orange. 3 feet. Pkt., 5c.; $\frac{1}{2}$ oz., 25c.

1978 Mammoth Tall Mixed—A splendid assortment of all the best shades in African Marigolds. 3 feet. Pkt., 5c.; $\frac{1}{2}$ oz., 20c.; oz., 35c.

1980 Mammoth Dwarf Mixed—The flowers are enormous in size, but the plants grow dwarfer. 1 $\frac{1}{2}$ feet. Pkt., 5c.; $\frac{1}{2}$ oz., 20c.; oz., 35c.



Lantana. Pkt., 5c.

Maurandya

Elegant twining, climbing plants, with handsome foliage and flowers. They bloom profusely all Summer in the garden, and are also particularly adapted for the house and conservatory. Preferred by many for the window garden in place of the Ivies. 1999 **Blue, White and Mauve, Mixed**—Pkt., 10c.

Mignonette (Reseda)

Without Mignonette in our gardens, something indeed would be missing. Its large, deliciously fragrant spikes of bloom are everyone's admiration. Make successive sowings in the garden, from April to July, for continuous bloom until frost; and if the plants are thinned out to six inches apart, and the tops pinched off when about two inches high, stronger plants, with large spikes of elegant bloom, will be the result. Height 1 to 2 feet, according to the variety.

2001 Mammoth Red Goliath (See illustration)—This is the ideal mignonette for garden or pot culture. Of strong stocky growth, luxuriant rich green foliage. Branching habit; dense in length and 2½ inches in diameter. Surpasses all others in brilliancy of color. Strong, delightful fragrance. Pkt., 10c.; ¼ oz., 50c.

2005 Machet—A very fine variety, especially for growing in pots; has large, fragrant spikes of reddish bloom. Pkt., 5c.; ¼ oz., 20c.; ½ oz., 35c.

2006 Golden Machet—A distinct variety of the above, having golden-yellow flower spikes. Very sweet and elegant. Pkt., 10c.; ¼ oz., 20c.

2007 Defiance—Has immense spikes of bloom. Keeps long time after being cut, and very fragrant. Pkt., 5c.; ¼ oz., 15c.

2008 Victoria Red—An elegant sort; fine flower-spikes of the most brilliant dark-red; very sweet. Pkt., 5c. ¼ oz., 20c.; ½ oz., 35c.

2009 Golden Queen—A very compact-growing sort; flower spikes golden yellow. Fragrant and fine. Pkt., 5c.; ¼ oz., 15c.

2010 Parson's White—A robust grower, bearing large spikes of bloom; pure white and very fragrant. Pkt., 5c.; ¼ oz., 10c.

2011 Sweet Mignonette (Reseda Odorata)—The old fashioned, deliciously sweet-scented variety. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.

2016 Finest Mixed Varieties—An elegant mixture of above fine varieties, and many other choice sorts. Pkt., 5c.; ½ oz., 15c.; oz., 25c.

Morning Glories (Convolvulus)

2024 Giant Imperial Japanese—One of the most valuable and popular annual climbers introduced in years. This strain of mammoth-flowering Morning Glories is most justly celebrated for the beauty of both flowers and foliage. Magnificent in size of bloom—4 to 6 inches across. The great variety of rich and delicate colors, tints and markings is wonderful. Our mixture of seed of these is superb. Pkt., 10c.; ½ oz., 15c.; oz., 25c.; 4 oz., 75c.

2026 Finest Mixed Japanese—Very choice strain; flowers large, and in greatest variety of colors and shades. Pkt., 5c.; ½ oz., 10c.; oz., 15c.

2028 Fancy Fringed Japanese—This is a splendid mixture, made up exclusively from the best fringed varieties. The range of color is very great, and the fringed-edged blooms very beautiful. Pkt., 10c.; ½ oz., 25c.; oz., 35c.

2022 Morning Glories (Convolvulus Major)—These are the old-fashioned favorites that everybody loves. No climber is more useful, as they grow so quickly and cling to anything. Splendid mixed with other vines, especially Nasturtiums. Our mixture contains all the choicest and brightest colored sorts. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

2030 Brazilian Morning Glories (Ipomoea Setosa)—This desirable climber makes a thick, dense growth of great lobed leaves, and is brilliant with an endless profusion of immense clusters of rosy-colored flowers, with a satiny-pink star in the center. Pkt., 10c.



Mammoth Red Goliath Mignonette. Pkt., 10c.

Dwarf, or Bedding Morning Glories

Beautiful and showy plants, producing an abundance of richly colored flowers, which, in fine weather, remain open all day. Hardy annual. 1 foot.

2036 Choice Mixed—A very large assortment of these richly colored favorites. Pkt., 5c.; oz., 15c.

Moonflowers (Ipomoea Noctiflora)

Splendid annual climbers of most rapid growth, with beautiful and varied flowers; for covering old walls, trellises, arbors, or stumps of trees, they are valuable. The seed should be lightly cut at the end and soaked over night before planting.

2038 Northern Light—The earliest blooming of all the Moonflowers. Its lovely pink flowers are produced by the thousands, all Summer and Fall. Pkt., 10c.

2040 Moonflower, White-Seeded—The variety most generally grown, being large in flower, firm in texture, and very fragrant. It bears in greatest profusion its immense lovely white flowers, 5 to 6 inches in diameter, with a 5-pointed star in the center. Pkt., 10c.

2042 Moonflower, Cross-Bred or Hybrid—A variety of great value for the North, as it is in bloom a month earlier than the above. Flowers are pure white, large and fragrant. A very rapid grower; 20 to 40 feet. Pkt., 10c. One packet each of above three Moonflowers, 25c.

Three Other Splendid Moonflowers

2044 Ipomoea Coccinea (Star Ipomoea)—Splendid climber; bears small, starshaped, scarlet flowers, in great abundance. Pkt., 5c.

2045 Ipomoea Bona Nox (Evening Glory)—A favorite climber; with very fragrant violet flowers, that open in the evening. Pkt., 5c.

2046 Ipomoea Eubro-Coerulea (Heavenly Blue)—The popular climber; has immense blooms of bright sky-blue. Very fine sort. Pkt., 10c.



GIANT JAPANESE MORNING GLORIES

Myosotis (Forget-Me-Nots)

The Forget-Me-Not is an old favorite, bearing clusters of star-shaped flowers. Succeeds best in a moist, shady situation, and blooms the first year from seed if sown early. Seed sown in Autumn flowers in early Spring. Hardy perennial.

2050 Palustris (True Forget-Me-Not)—Beautiful blue; 6 inches. Pkt., 10c.; ¼ oz., 30c.

2051 Alpestris—Bright blue. Pkt., 5c.

2054 Semperflorens—Splendid dwarf Forget-Me-Not; will thrive in sun or shade; covered from early to late with beautiful blue flowers. Pkt., 5c.

2058 Finest Mixed Varieties—A Forget-Me-Not Mixture of all the finest sorts. Pkt., 5c.

Mimulus (Monkey Flowers)

Very showy and free-blooming plants, having brilliant and greatly varied blooms. Fine for pots, or in the garden. They do best in rather shaded, moist situations. They bloom early from seed, and, although perennials, are treated as annuals. 1 foot.

2018 Tigrinus—Striped and spotted varieties; very fine. Pkt., 10c.

2020 Moschatus (Musk Plant)—Fine for hanging baskets, etc. Small yellow flowers. The foliage has a strong odor of musk. Pkt., 5c.

Musa Ensete

2062 Abyssinian Banana Plant—A splendid large-leaved, palm-like plant, suitable for the open air in Summer and producing a very strikingly elegant effect upon the lawn. Its rapidity of growth is astonishing. If the seeds are sown early in the house, the plants will attain a growth of 10 to 12 feet the first Summer. Leaves magnificently long, broad, massive and of a beautiful bright green. Seeds very large.

Pkt. (5 seeds), 10c.

Ivy-Leaved Trailing Nasturtium

This is a most distinct variety, both in flower and foliage. The plants are of very sturdy, running growth, and the leaves, which are of a deep green, veined with silvery-white and star-like, resemble the hardy English Ivy. The flowers are intense glowing scarlet and most distinct in form, the petals being finely feathered. Especially graceful in hanging baskets, window boxes and vases.

2101 Scarlet—Pkt., 10c.; ½ oz., 20c.; oz., 30c.

Madame Gunther Hybrid Climbing Nasturtiums

These are of French origin, and for rich and striking colors are not surpassed by any class of climbing Nasturtiums. Very fine.

2096 Mixed Colors—Pkt., 5c.; oz., 15c.; ¼ lb., 50c.

2076 Tall French Chameleon—This variety produces blooms of many distinct colorings upon the same plant. Pkt., 5c.; oz., 15c.

2077 Dark Crimson—Splendid variety; fine foliage. Pkt., 5c.; oz., 10c.

2081 Jupiter—Giant-flowered. Color a deep, very clear, golden yellow; of the strongest growth; profuse bloomer. Pkt., 5c.; oz., 20c.

2082 Tall King Theodore—Deep crimson-maroon, so velvety that it is almost black; has dark foliage. One of the best sorts. Pkt., 5c.; oz., 15c.

Best Giant-Flowering Tall Nasturtiums Livingston's Top-Notch Mixture

A wonderful diversity of rich colors and new and striking combinations are found in this unequalled mixture. A row in full bloom is beyond description, containing shades of yellow, rose, scarlet, orange, lemon, bronze, maroon, ruby, cream and pink, both in solid colors and mottled and striped in many showy and exquisite ways.

For many years this mixture of Nasturtiums has been our special pride. Every year we have improved it, until now we unhesitatingly offer our new Giant-Flowering Nasturtiums as absolutely the finest. We strongly recommend our customers to plant liberally and buy seed by weight.

2100 Top Notch Mixture of New Giant-Flowering Nasturtiums—A large packet, 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25, post-paid.

New Fringed Nasturtiums

A decidedly novel and distinct new Nasturtium, with magnificent large flowers, deeply fringed. Climbing variety, reaching a height of 10 to 12 feet. Deep green foliage. A unique and beautiful variety.

2104 Mixed Colors—Pkt., 10c.

Lobb's Climbing Nasturtiums

(*Tropaeolum Lobbianum*)—Both foliage and flowers of this class are somewhat smaller than the Tall varieties, but the splendid profusion of bloom and the intensely brilliant colors of the flowers render them of the greatest value. 12 to 15 feet.

2095 Lobb's Finest Mixed—This elegant assortment of Lobb's Climbing Nasturtiums is composed of the most brilliant colors in this class. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.



Livingston's
Glory of the Garden
Nasturtiums

2083 Tall Pearl—Nearly white; for contrast. Pkt., 5c.; oz., 10c.

2084 Begelianum—Deep purplish violet. Pkt., 5c.; oz., 10c.

2086 Scarlet—Bright; good foliage. Pkt., 5c.; oz., 10c.

2110 Marble-Leaved Queen, Mixed—A beautiful variety and a new type, having leaves marbled, striped and blotched with white, yellow and green. Many colors mixed. Pkt., 5c.; oz., 25c.

2094 Mixed Tall Nasturtiums—There is no flower of which you need seed in larger quantities for liberal planting than Tall, or Climbing Nasturtiums. For the low price, this mixture is very choice. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 70c.

Walter W. Howard, Hamilton Co., Ohio, (Feb. 9, 1913), writes: "I am so well pleased with your Globe Tomatoes that I can't very well do without them. They ripen thoroughly without rotting and they sell well. Every one says they are the best in the Pink Tomato line."

Livingston's Rainbow Collection of Giant-Flowering Tall Nasturtiums



Giant Cream Pink

The extremely large flowers are of full expanded form; the daintiest of all Nasturtiums. Its superb coloring is of blush cream, flushed with rose. Nothing we can say can convey an idea of its fairy-like beauty, mammoth size and splendid substance. 2068—Pkt., 5c.; oz., 20c.

Giant Lemon and Rose

Grand, extra large flowers of clear pale lemon, varying to bright yellow; beautifully blotched with bronzy crimson. 2069—Pkt., 5c.; oz., 20c.

Giant Golden Yellow

Mammoth flowers, frequently 3½ inches in diameter; borne on long, strong stems well above the foliage; exquisitely formed with overlapping crinkled petals of a rich golden yellow. Strong, vigorous grower; large, bright green leaves. A grand and distinct variety. 2066—Pkt., 5c.; oz., 20c.

Giant Rose

A most desirable variety, with flowers of a soft rosy-pink color; foliage light green. The brightest rose-color Nasturtium we have ever seen. Abundant bloomer. 2067—Pkt., 5c.; oz., 20c.

Giant Deep Crimson

The deepest and richest of all dark red Nasturtiums. The foliage is dark green; the mammoth flowers, which are borne in great abundance, have a soft, velvety texture; slightly crumpled petals and wonderfully rich coloring. 2070—Pkt., 5c.; oz., 20c.

Giant Striped Hybrids

A gorgeous strain of brilliantly striped beauties of various shades and tints; gigantic in size. Its wonderful variety of colors and markings show many unique combinations. 2071—Pkt., 5c.; oz., 20c.

Giant Brilliant Scarlet

A glowing, flaming scarlet, intense and vivid; the largest of its color; of splendid substance and beautiful form. 2072—Pkt., 5c.; oz., 20c.

Seven Large Packets of the New and Wonderfully Beautiful Kinds, postpaid, to any address, for 25 cents.

Dwarf Nasturtiums Glory of the Garden

These Grand New Bedding Nasturtiums are brilliant in the extreme. They produce in abundance large flowers of the most gorgeous hues. The plants are strong and vigorous, growing very quickly and producing erect, symmetrical bushes about 1 foot high and 1 foot across, which are literally smothered with showy blooms. They begin to flower early in Summer, and, until killed by frost, are a mass of bloom. The flowers are of good substance and rich, velvety texture. For bedding, as a border or low hedge along walks or growing as single plants. **Glory of the Garden Nasturtiums** are of surpassing beauty. 2130 Mixed—Pkt., 10c.; oz., 15c.; ¼ lb., 50c.

Queen of Holland

New Liliput Hybrids—A dainty new type of very dwarf growth, making fine compact little bushes only about 6 inches high. The flowers, although smaller than the regular Nasturtium, are very brilliant in color and are produced in a wonderful variety of shades and combinations, including cream, rose, scarlet, orange, crimson—all beautifully blotched. 2131 Mixed Colors—Pkt., 10c.

2135 Golden King—A rich orange-yellow. Foliage dark. Pkt., 5c.; oz., 15c.

2136 King of Tom Thumbs—Glowing, darkest scarlet flowers. Foliage very dark green. A most rich and brilliant variety. Pkt., 5c.; oz., 15c.

2137 Dwarf King Theodore—A velvety crimson-maroon, almost black. The leaves are the darkest in Nasturtiums. Pkt., 5c.; oz., 15c.

2133 Dwarf Chameleon—Of brilliant shades and diversified markings; some self-colored, others splashed and mottled. Pkt., 5c.; oz., 20c.

2134 Empress of India—A very compact-growing sort, having purplish-green leaves; the flowers are fiery crimson. Pkt., 5c.; oz., 15c.

Livingston's Splendid Mixture of Fine Dwarf Nasturtiums

This is our best mixture of the dwarf varieties. It is composed exclusively of the most elegant, large-flowered sorts, and the brilliantly colored flowers range through every shade and tint known in this favorite annual. This seed will produce a bed or border gorgeous beyond description. 2151 Finest Mixed—Large pkt., 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

Mixed Dwarf Nasturtiums—We handle such large quantities of Dwarf Nasturtiums that we are able to offer this especially choice mixture at a very low price. You should plant this mixture very liberally. 2150 Choice Mixed—Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 80c.

Dwarf Queen Nasturtiums Mixed

A gorgeous mixture of all the dwarf or Tom Thumb varieties of the Marble-Leaved Queen Nasturtiums. Containing not only the above distinct sorts, but several other new hybrids not yet sufficiently "fixed" in color to offer separately. 2123—Pkt., 5c.; oz., 25c.

Dwarf Liliput Nasturtiums

This charming and distinct new class has very small flowers and leaves. In growth it is very compact, bushy and dwarf, being more so in both respects than the Dwarf Nasturtiums. In colors they are most varied and rich. 2152 Mixed—Pkt., 5c.; oz., 20c.



Glory of the Garden Nasturtium



Nicotiana

(Sweet-Scented Tobacco Plant)—Handsome and well-known hardy annuals that grow easily from seed, forming compact bushes about 3 feet high, which are in continuous bloom throughout the season. Their blooms are tube-shaped, very sweet-scented, and desirable as cut flowers; also fine for pots.

2158 Affinis—A very popular sort; its flowers are pure white and deliciously fragrant. Always in bloom. Pkt., 5c.

2160 Sanderae—This beautiful hybrid Nicotiana forms bushy, much-branched plants 2 feet high, the whole plant laden with flowers from base to summit—literally ablaze with handsome carmine-red fragrant blossoms, hundreds of which are produced on a single plant. Pkt., 10c.

Nigella (Love-in-a-Mist)

A very popular, old-fashioned flower; free-flowering, with finely cut foliage surrounding the curious looking flowers and seed pods. Easily grown from seed.

2163 Mixed—Pkt., 5c.; ½ oz., 10c.

Ornamental Grasses

Effective and attractive for garden borders and ornamental groups. Also extensively used when dried for Winter bouquets.

1660 Coix Lachrymae (Job's Tears)—Beautiful variety. Has coin-like leaves, and hard, glossy gray colored seeds, which naturally have a hole in them like beads. 2 feet. Pkt., 5c.; oz., 10c.; 2 oz. (enough for a chain), 15c.; ¼ lb., 25c.; lb., 75c.

2170 Eulalia Zebrina (Zebra Grass)—The long dark green leaves are beautifully striped with yellowish white. Perennial. 5 feet high. Pkt., 10c.

2171 Purple Fountain Grass (Pennisetum)—Beautiful and graceful; is unequalled as an edging to tall-growing plants. Annual. 3 feet. Pkt., 5c.

2172 Mixed Annual Varieties Ornamental Grasses—Pkt., 5c.

Livingston's Mammoth Pansies

Our Pansy Seeds are grown exclusively for us by the best American and European Specialists. All our strains are from the most noted seed stocks in the world, and we know they cannot fail to give the most unbounded satisfaction to amateur and professional grower alike. Sow in the house, hot-bed, or greenhouse; or as soon as the weather permits, the seed may be sown directly in the garden beds. Pansies thrive best in a rich soil, and cool, moist situation; they do splendidly in partially shaded places. They do not do well under trees, but in some locations where the sun strikes only part of each day the most satisfactory result can be obtained. Seed sown from July to September and the young plants transplanted into cold-frames for the Winter, will bloom grandly very early the following Spring. (Prices by ounce or larger quantities will be quoted upon application.) Free to our customers, leaflet on the culture of Pansies.

Exquisite Orchid-Flowered Pansies

All the delicate shades and tints of the Orchids may be found in these charmingly pretty favorites. Rose, orange, pink, lilac, terra cotta, chamois and other exquisite shades are predominant and please all lovers of the delicate by their refined form and texture. Orchid-flowered Pansies are not as large as some of our Giant strains; but they will appeal by their exquisite coloring and the elegant shape of their flowers. **2179 All Shades Mixed**—Pkt., 10c.

Giant German Pansies

The German Pansies are noted for their almost endless variations, which include striped, blotched bordered, veined, and marbled combination, in every possible color and shade. The plants are of compact growth, and flower most profusely and continuously all Summer. **2185**—Pkt., 10c.; 3 pkts. for 25c.

Livingston's Fancy Pansy Mixtures

In this magnificent mixture of mammoth-flowering pansies the blossoms are borne on long stems well above the foliage and are distinguished for their gorgeous and varied colorings and beautiful markings; of fine substance, velvety texture, perfect form, and giant size, frequently measuring three inches in diameter. The colorings are wonderfully rich and varied; every shade and tint of rose, canary-yellow, black, white, cream, lavender, garnet, sky-blue and orange are produced in endless variation. An unequalled collection of all the finest types. The best, handsomest, and most perfect giant-flowering varieties. **2175 Fancy Mixture**—Pkt., 25c.; 3 pkts., 60c.; ¼ oz., \$1.25.

Bugnot's Superb Blotched

The flowers of this splendid strain are of the largest size, and produce the handsomest and richest blotched varieties known in Pansies. We recommend this mixture. **2187**—Pkt., 20c.; 3 pkts. for 50c.

Mammoth Parisian Pansies

The French Pansies are large, and strongly marked and blotched; in a word, they are very attractively "Frenchy." The strain we offer is one of great excellence, the individual flowers being superb, and include many fine shades. **2183**—Pkt., 10c.; 3 pkts. for 25c.

Livingston's Giant Pansy Mixture

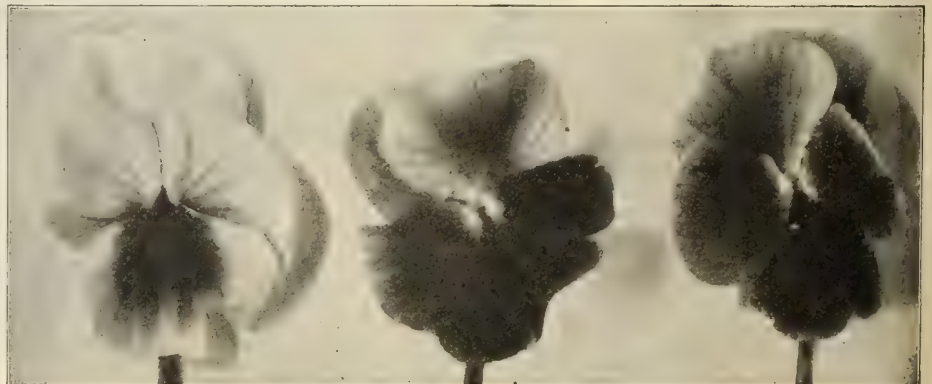
This splendid mixture is a blended combination of giant-flowering pansies. It contains all colors and will prove a delightful surprise in regard to their great size. **2177 Giant Mixture**—Pkt., 10c.; 3 pkts. for 25c.; ¼ oz., 50c.; oz., \$2.50.

Giant Ruffled Masterpiece (Germania)

A remarkable type, the border of each petal being conspicuously curled and undulated, which gives the flower a double or globular appearance. The large blooms are beautifully blotched. **2181**—Pkt., 15c.; 2 pkts. for 25c.

Madame Perret

A splendid giant-flowering strain, which is of French origin. The flowers are produced most freely, and are of the greatest diversity of colors, comprising all shades of red, from lightest rose to darkest purple. Many are striped. **2189**—Pkt., 15c.





Specimen Flowers
Livingston's Fancy
Pansy Mixture

Best Strains of Pansies, Continued

Bedding Pansies in Separate Colors

For liberal plantings in the garden beds these fine sorts are the most desirable. The plants grow compactly, bushy, and bloom continuously. The following separate colors, 5c. per packet; 6 packets, 25c.:

- | | | |
|--------------------|----------------------|--------------------------|
| 2210 Azure Blue | 2215 Dark Red | 2220 Pure Yellow |
| 2211 Black | 2216 Light Blue | 2221 Violet, Wh. Margin |
| 2212 Bright Brown | 2217 Mahogany | 2222 White, Blk. Center |
| 2213 Brilliant Red | 2218 Pure White | 2223 Yellow, Blk. Center |
| 2214 Dark Purple | 2219 Purplish Violet | 2224 Rosy Lilac |

Collection one each of the above 15 Bedding Pansies, 50c.

Giant Trimardeau Separate Colors

- | | |
|---|------|
| 2194 Gt. Atropurpurea (Rex)—Velvety, royal purple..... | 10c. |
| 2195 Gt. Emperor William—Indigo blue, blotched, black.. | 10c. |
| 2196 Gt. Golden Queen—Pure golden-yellow. Very fine.. | 10c. |
| 2197 Gt. King of the Blacks—Lustrous jet-black..... | 10c. |
| 2198 Gt. Lord Beaconsfield—Lavender, heliotrope, purple.. | 10c. |
| 2199 Gt. Peacock (Gloriosa)—Garnet, cream and blue.... | 10c. |
| 2200 Gt. President Carnot—White, large violet, blotches.. | 10c. |
| 2201 Gt. Snow-Flake—Spotless, snow-white | 10c. |

Bedding Pansies Mixed

We have taken much pains in composing this mixture and it will make a rich display. Contains all the fine Bedding Pansies named above. 2225 Mixed—Pkt., 5c.; ¼ oz., 20c.; ½ oz., 30c.; oz., \$1.00.

Best Strains of Giant Mixed Pansies

Giant Trimardeau, Mixed—These are the largest flowered of all; a most showy class, of robust and very compact growth. The flowers are carried well above the leaves. Mixture of finest colors. 2205—Pkt., 10c.; 3 pkts., 25c.; ½ oz., 40c.

English Pansies

The old-fashioned "English Face" Pansies. 2191—Pkt., 10c.; 3 pkts. for 25c.

Tufted Pansies

Especially adapted for shady places. While the flowers are not so large as in the other varieties of Pansies, their abundance is wonderful, and colors most varied. Hardy. 2230—Pkt., 10c.; 3 pkts. for 25c.

Our "Giant Six" Pansy Collection

This collection contains one packet (100 seeds) each of the following elegant varieties: Giant Red, Giant White, Giant Blue, Giant Purple, Giant Yellow and Giant Black. 6 packets in all for 25c.

Annual Phlox

For a splendid mass of color and a constant display, the Phlox Drummondii is not excelled by any other annual. It has every desirable quality for this purpose and for beds, edgings and massing nothing can surpass it. Seed may be sown in the open ground any time after danger from frost is past.

Large-Flowering Phlox

This is a magnificent class of these splendid annuals. Flowers are large and brilliant in colors.

2269 Bright Rose—Most pleasing color; a profuse bloomer. Pkt., 5c.; ¼ oz., 30c.

2270 Brilliant Scarlet—Is especially showy in large beds or borders. Pkt., 5c.; ¼ oz., 30c.

2271 Crimson—Popular sort; very brilliant and effective. Pkt., 5c.; ¼ oz., 30c.

2272 Deep Blood-Red—Pkt., 5c.; ¼ oz., 30c.

2273 Pure White—Pkt., 5c.; ¼ oz., 30c.

2274 Yellow—Distinct. Pkt., 5c.; ¼ oz., 30c.

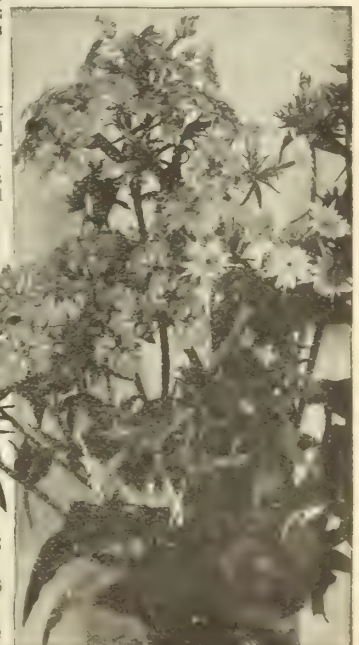
2267 Prize Mixture of Large Flowering Phlox—Large pkt., 10c.; ¼ oz., 25c.; ½ oz., 40c.; oz., 75c.

Phlox Drummondii—The old-fashioned favorite variety. 2265 Mixed—Pkt., 5c.; ¼ oz., 15c.; oz., 50c.

Star-Shaped Phlox—Long, pointed petals, which give the flowers a star-like appearance; plants grow compact and dwarf. 2278 Mixed—Pkt., 5c.; ¼ oz., 20c.



Phlox Drummondii



Star-Shaped Phlox. Pkt., 5c.

Livingston's Superb Petunias

Petunias are one of the most popular annuals on account of their ease of cultivation and freedom of blooming, succeeding everywhere and giving a constant supply of flowers from June to October. They are also good house plants, flowering freely in a sunny window. Seed can be sown in the open ground early in the Spring or in a hot bed or cold frame, to be transplanted later to beds or borders. Height 1 to 1½ feet.

Large-Flowering Petunias

The blooms are enormous in size and of the richest colors and markings. Varieties listed below are unsurpassed.

2240 Livingston's Superb Single Mixed—A strain of incomparable beauty and luxuriance. Flowers most varied in colors and markings; beautifully ruffled, fringed and of enormous size. Pkt., 15c.; 2 pkts., for 25c.

2242 Giants of California—These Petunias are of great beauty and luxuriance, including fringed and deep-throated sorts in endless variety of colors, veinings and markings. Flowers of enormous size. Pkt., 15c.; 2 pkts. for 25c.

2244 Ruffled Giants—The flowers of this strain are of extraordinary size and great substance; the edges of the blooms ruffled. Contains the greatest variety of rare colors and combinations. Pkt., 25c.

2246 Livingston's Superb Double Mixed—Our best mixture of all the large-flowering double varieties, including striped, blotched and fringed sorts. Pkt., 25c.

Bedding Petunias

2250 Howard's Star-Shaped—Entirely distinct. The five-petaled blooms have star-shaped markings of bluish-pink or white over maroon ground; very fine. Pkt., 5c.

2252 General Dodds—A very fine blood-red variety; grows compactly; very free-flowering. Splendid for beds and borders. Pkt., 5c.

2254 Snowball—A charming, compact-growing variety; grows about 8 inches high and yields in greatest profusion all season its pure satiny-white flowers. Pkt., 10c.



Petunia—Giants of California. Pkt., 15c.

2256 Striped and Blotched—A most beautiful strain of Petunias for bedding and massing. Our mixture contains an endless variety of colors. Pkt., 5c.; ½ oz., 20c.; ¼ oz., 35c.

2258 Finest Mixed—A choice mixture of colors and shades; will make a fine display in your garden. Pkt., 5c.; ½ oz., 20c.; ¼ oz., 35c.

Poppies

The recent development of these old-fashioned flowers has brought them into great and deserved popularity. No flower in our garden affords a more pleasing display of gorgeously brilliant coloring during the blooming season. Poppies of the various varieties grow about 2 feet in height, except as noted.

Double Annual Poppies

2300 Paeony Flowered—Large, showy double globular flowers, almost equal to Paeonies. Our mixture contains the finest colors. Pkt., 5c.; ½ oz., 10c.; oz., 15c.

2302 White Swan—Pure snow-white, double and large size. Beautifully fringed. Pkt., 5c.

2304 American Flag—Very beautiful variety. Flowers extra large and double. Snow-white, bordered with scarlet. Pkt., 5c.

2306 Fairy Blush—Immense flowers, perfectly double, 5 inches across; elegantly fringed; pure white, rose-tipped petals. Pkt., 5c.

2308 Carnation Flowered—Splendid large double flowers; showy and beautifully fringed. Mixture is unequalled for dazzling richness and great variety of colors. Pkt., 5c.; ½ oz., 15c.; oz., 25c.

2310 "Mikado" (The Striped Japanese Poppy)—Very distinct and beautiful; the large blooms are brilliant scarlet and white, with elegantly curved and fringed petals. Pkt., 5c.; ¼ oz., 10c.

Livingston's Giant Double Mixed Poppies—A mixture of beautiful double Poppies, including only the improved double, giant-flowering kinds of the richest and brightest colors, as well as the daintiest and softest tints. When grown in masses it is brilliant beyond description. The plants are sturdy, thrifty growers, from 2 to 3 feet high, producing immense flowers, sometimes 4 inches in diameter. Sow the seeds in the early Spring in sandy soil where they are to remain. (See illustration.)

2311 Mixed—Pkt., 5c.; oz., 35c.

Single Annual Poppies

2316 Livingston's Giant Shirley Poppies—These are considered by many the most charming Poppies in cultivation. The individual flowers are large and elegant, mostly single blooms, some semi-double and double ones, often measuring from 3 to 4 inches across. The petals are fluted and crinkled and in the sun appear like crumpled satin. The exquisite colors range from purest white to the deepest of blood-red, through all the shades and combinations of pink, rose, crimson and carmine. Pkt., 5c.; ¼ oz., 20c.; oz., 60c.

2318 Dwarf Shirley—Identical with Giant Shirley except they grow dwarf—not exceeding 18 inches in height. Splendid for beds and borders. Pkt., 5c.; ¼ oz., 20c.

2321 Danebrog (Danish Cross)—A very showy single variety; brilliant scarlet, blotched with silvery gray. Pkt., 5c.

2323 Tulip Poppies—Large and splendid single flowers of the most dazzling scarlet. The two outer petals resemble a saucer, in which are set two erect petals of the same color. Pkt., 5c.; ¼ oz., 20c.



GIANT DOUBLE POPPIES



Oriental Poppy. Pkt., 10c.

Platycodon Grandiflora

(Chinese Bell-Flower)

A splendid hardy perennial, producing large bell-shaped, white and blue flowers, very showy.

2297 Mixed—Pkt., 5c.; ¼ oz., 25c.

Pyrethrum (Feverfew)

Most attractive hardy Perennials, which have become very popular. Valuable border plants with many stems about two feet high, each surmounted with handsome flowers, in the brightest shades of rose, flesh-pink, crimson, etc.; in bloom a long time, and are splendid as cut flowers. (See **Feverfew**.)

2362 **Single Hybrids**—This mixture contains the very largest flowering and choicest varieties. Pkt., 15c.

2364 **Golden Feather (Aureum)**—Dwarf-growing variety, with bright yellow foliage; largely used for edgings and ribbon work. Usually treated as an annual. ¾ feet. Pkt., 5c.; ¼ oz., 20c.

Large Flowering Primulas (Primroses)

The ease with which Primroses can be grown from seed makes them very popular window-plants. For a succession of blooming plants sow the seed from March to May, and again in July or August; in planting, cover the seed lightly, and keep moist. Transplant when the second leaf appears, and keep re-potting the plants as they grow and increase in size. Height, ½ to 1 foot.

2346 **Chinese Primrose—Superb Single Mixed**—An elegant mixture, embracing all the best large-flowering varieties, and including the finest fringed sorts. Pkt., 25c.

2348 **Chinese Primrose—Superb Double Mixed**—Splendid strain of the finest large-flowering, fringed varieties. Our mixture includes all the most brilliant colors. Pkt., 25c.

2350 **Chinese Primrose—Choice Mixed**—This is a very choice mixture, and for general purposes will be found most satisfactory. Pkt., 15c.

2352 **Obconica Grandiflora—Large-Flowering Hybrids**—Lovely and profuse blooming Primrose, bearing on long stems large heads of beautiful flowers; white, tinged lilac and rose shades; ever-blooming variety with true Primrose fragrance. Pkt., 10c.

2354 **Japonica (Japanese Primrose)**—Very bright and showy flowers, borne in whorls on stems 6 to 9 inches long. Choicest colors. Pkt., 10c.

Phaseolus Multiflorus Papilio

2262 **New Butterfly Bean**—A splendid climbing plant for arbors and trellises equal to the old Scarlet Runner sort as regards productiveness and quality of fruit, but quite distinct in the beauty of its flowers. The flowers are of large size with prettily waved snowy-white wings and salmon-rose standard, these two colors making a most agreeable and striking contrast. Pkt., 10c.; 3 pkts. for 25c.

Single Annual Poppies, Continued

2325 **New Admiral Poppy**—Of surprising beauty. Large, round, smooth edged flowers of glistening pure white, with a broad band of brilliant scarlet around the top. Pkt., 10c.

2327 **Livingston's Single Poppy Mixture**—Every color ever seen in Poppies, and every conceivable combination of colors is found in this elegant mixture. Pkt., 5c.; ½ oz., 20c.; oz., 35c.

Perennial Poppies

There are no flowers more ornamental and useful in our gardens than the various varieties of hardy Poppies. Once started they increase in size and beauty each succeeding season.

The Large Oriental Poppy

Perhaps the most popular variety in cultivation, the sturdy plants growing about 3 feet high. Its color, a dazzling scarlet with coal-black blotches, is grand. For gorgeous effect, nothing can equal them in perfectly hardy plants. 2333—Pkt., 10c.; ½ oz., 20c.; ¼ oz., 35c.

2335 **Oriental Hybrids**—Splendid hybrids of Oriental Poppy. Enormous flowers, sometimes more than six inches in diameter. Colors include shades of cherry, salmon, darkest red, vivid crimson and innumerable others equally fine. Our mixture contains them all. Pkt., 10c.; ½ oz., 25c.; ¼ oz., 45c.

2336 **Tribby**—This is one of the most beautiful varieties of the Oriental type. The blooms are of the largest size, and they are produced in great abundance. The color is salmon-pink. Pkt., 10c.

2330 **Iceland Poppies (Papaver Nudicaule)**—These Poppies are perfectly hardy and in bloom from June until frost; beautiful, satin-like flowers, of every shade of yellow, white and orange-scarlet. Plants grow about 12 inches high, forming tufts, from which the flower stems issue most profusely. Very useful for cut flowers. Easy to grow. Pkt., 10c.; ½ oz., 15c.; oz., \$1.00.

2332 **Double Mixed Iceland Poppies**—This splendid mixture of double-flowering varieties you will find very superior. Pkt., 10c.; 3 pkts., 25c.

Portulaca (Sun Plant)

Should be sown in every garden. Scarcely any annual in cultivation makes such dazzling display of beauty as a bed of highly colored, many-hued Portulacas. Plant in dry sandy soil, soon as it becomes warm, with full exposure to the sun.

Large-Flowered Single Mixed—A most elegant mixture; flowers large and of every shade of color. 2340—Pkt., 5c.; ¼ oz., 20c.; oz., 60c.

Rose-Flowered Portulaca—From this assortment more than one-half of the plants will produce double flowers; these plants can be transplanted 8 inches apart as soon as they bloom, thus making an entire bed of double bloom. Our mixture contains all best double varieties. 2342—Pkt., 10c.; ¼ oz., 75c.



Primula Obconica Pkt., 10c.

Ricinus

(Castor Oil Bean)

One of our best ornamental-leaved annual plants, largely used for the center of beds, being splendidly effective grouped with Cannas, Caladiums, and other tall plants.

2370 Zanzibariensis—A new and distinct class, surpassing in size and beauty all varieties hitherto known. Plants attain great dimensions—12 to 14 feet. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.

2371 Borboniensis—Very large and most showy green foliage; standard variety. 10 to 15 feet. Pkt., 5c.; oz., 10c.

2372 Cambodgensis—Main stem and leaf-stalks shining ebony-black; leaves large and brilliantly colored. Foliage assumes various shades. 5 feet. Pkt., 5c.; oz., 15c.

2373 Gibsoni—Compact-growing variety of branching habit. The large leaves are a deep red. 5 feet. Pkt., 5c.; oz., 10c.

2374 Philippinensis—A variety from the Philippines, with beautiful and gigantic leaves. 10 feet. Pkt., 5c.; oz., 10c.

2377 Livingston's Ricinus Mixture—Appreciating fully the splendid effects that a fine array of these desirable foliage plants will make in your garden, we have composed a mixture that for elegant blending is unsurpassed. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.



Salpiglossis, or Painted Tongue. Pkt., 5c.

Salvia (Flowering Sage)

Very ornamental plants, for Summer and Autumn flowering; bloom in spikes, and continuing to bloom in the open ground until hard frosts, forming compact bushes, which are literally ablaze with brilliant flowers. While tender perennials, they bloom like annuals the first season from seed. The plants may be started in a box in the house, or in the hotbed, and when the weather becomes warm transplant in the garden. Height 2 to 3 feet. (See illustration.) May be used as a hedge with striking effect.



2384 Splendens Grandiflora (Scarlet Sage)—Gorgeous plants, numerous spikes of intensely vivid scarlet flowers 10 to 12 inches in length. Continues to flower profusely all Summer and Fall. Of easy growth. The most popular Salvia in cultivation. Pkt., 10c.; ½ oz., 25c.

2386 Bonfire—Plants form healthy bushes about 2 feet high by 2 feet across. Spikes grow erect and stand clear above the foliage, completely covering the plant, and are of a most brilliant, dazzling scarlet. One of the finest sorts. Pkt., 10c.; ½ oz., 50c.

2388 Silverspot—Strikingly handsome spotted foliage. Leaves rich, soft dark green, with light yellowish spots of various size sprinkled over them, and have a fresh, healthy appearance. Flowers are large, bright red; plants of neat, compact habit. Comes quite true from seed. Pkt., 10c.

2390 Scarlet Dragon—A magnificent free-growing new variety, forming dense, bushy plants, 3 feet high; with clean, light green foliage, and bearing innumerable mammoth spikes of vivid carmine scarlet flowers of extra large size. Splendid for borders, beds and masses, as it is always in bloom and vividly gay. Pkt., 10c.

2392 Goldspot—Leaves bright green, blotched with golden yellow; erect growth, 20 inches high; large scarlet flowers, and lavishly borne. Pkt., 10c.

2394 Coccinea Lactea—A fine, pure white flowering variety. Pkt., 5c.

2396 Patens—Beautiful bright blue. Pkt., 10c.

2398 Zurich—Compact growing sort, forming very handsome, symmetrical bushes, 15 to 18 inches tall, which are completely covered with scarlet flower spikes. A little beauty. Pkt., 10c.

Mrs. Frank Gregory, Ashtabula Co., Ohio, writes (1-27-13): "My ruffled Petunias I got of you last year were the finest I ever saw."

Roses

(Bloom the First Year from Seed)

Baby Roses, also called **Dwarf Midget**, or **Fairy Roses**—These beautiful little roses are borne in many flower clusters of double, semi-double and single flowers, and are of all the tints of other roses. Seed should be soaked in warm water a day or two before planting; perfectly hardy, blooming year after year. **2380**—Pkt., (50 seeds), 10c.; 3 pkts., 25c.

Salpiglossis

(Painted Tongue)

The Salpiglossis is one of the most popular and favorite annuals. It is of the easiest culture. Especially is it noted for its beautiful, almost orchid-like blooms. Our mixture is unsurpassed, containing every desirable color and shade of the large-flowering varieties. 1½ feet. **2400 Mixed**—Pkt., 5c.

2401 Brown and Golden Yellow—Rich velvety color, with beautiful veinings that furnish a delightful contrast. Pkt., 10c.

2402 Light Blue and Golden Yellow—A most harmonious color combination. Pkt., 10c.

2403 Purplish Brown Veined Golden Yellow—Handsome in the extreme. The exquisite coloring is beautiful. Pkt., 10c.



Bed of Salvia

Stocks (Gilliflower)

Indispensable for bedding, borders, massing or pot culture.

Large-Flowering Double "Cut and Come Again" Varieties.

2446 Snow White—(See illustration.) Pkt., 10c.

2440 Finest Mixed—This is our very best mixture of large-flowering Stocks. The perfectly double flowers embrace every color and shade. Pkt., 10c.

2448 Giant Perfection Stocks—Long spikes of double flowers. Pkt., 10c.

2450 Fine Mixed Stocks—A choice mixture of various colors and shades. Pkt., 5c.

Sunflower (Helianthus)

A well known family of hardy annual, very showy plants, large flowers.

2454 New Miniature—Beautiful new hybrids; small single flowers in great abundance; colors, creamy white, lemon and orange; indispensable for cutting. Pkt., 5c.; ¼ oz., 20c.

2456 Globe of Gold—Globe-shaped, double yellow flowers. Pkt., 5c.

2458 Mammoth Russian—Very large single flowers. The seed is also grown largely for feeding to birds, fowls and poultry. Oz., 5c. See illustration on page 81.

2460 Livingston's Mixed Sunflowers—A great variety of single and double varieties. Every shade of yellow is included. Pkt., 5c.; ½ oz., 10c.; oz., 15c.



Ten-Week-Stock Snow White. Pkt., 10c.

Scabiosa

(Sweet Scabiosa, Mourning Bride, Pin-Cushion Flower, Egyptian Rose, etc.)—While many plant yearly a bed or border of Scabiosas, there are thousands of gardens where this splendid annual is unknown. It is to bring them forcibly to your attention that we place these beautiful Scabiosas so prominently before you. They are of the easiest culture. The seed can be sown any time in the Spring after danger from frost is past. The plants grow about 2½ feet high, and come into bloom early in July, continuing without interruption until the hard frosts of Autumn. The exquisite double flowers (see illustration) are borne on very long stems, and when cut keep in perfect condition for the best most effective borders or beds, and no garden can be considered complete without Scabiosas where many flowers are wanted for cutting.

2404 Livingston's Improved Large-Flowering Scabiosas, Finest Mixed Colors—A very fine mixture, containing all the finest large-flowering double sorts. All colors. Pkt., 5c.; oz., 30c.

2406 Azure Fairy—Exquisite sky-blue. Pkt., 10c.

2408 Fiery Red—Very striking; double; fiery scarlet. Pkt., 5c.

2410 Black Prince—Very large; double; almost black. Pkt., 5c.

2412 Snowball—Double white flowers; fine for bouquets. Pkt., 5c.

2414 Golden Yellow—Very fine color. Pkt., 5c.

2416 Pompadour—Claret-purple, edged white. Pkt., 5c.

2418 Flesh—Pkt., 5c.

2419 Rose—Pkt., 5c.

2420 Lilac—Pkt., 5c.

2421 Cherry Red and White—Pkt., 5c.

2422 White and Lilac—Pkt., 5c.

Collection Scabiosa, above 11 separate colors, 50c.

2426 Hardy Scabiosa Caucasica—Grand hardy perennial, 3 feet high; large lilac-blue flowers; splendid for cut flowers. Pkt., 10c.

Sensitive Plant

A pretty and curious annual plant; the leaves and foot-stalks close and droop at the slightest touch, or in cloudy, damp weather. 1½ feet. 2430—Pkt., 5c.

Shasta Daisies

A hardy perennial plant; blooms more abundantly each season; multiplied by division of roots or sowing seed. They bloom for several months in great abundance. The flowers are large and graceful, with three or more rows of pure white petals.

2433 Selected Seed—Much superior to original strain. Pkt., 10c.

Stokesia Cyanea

(Cornflower Aster)—A valuable hardy perennial, bedding plant. Plants large, 18 to 20 inches high, with Bachelor Button-like, light lavender-blue flowers, which are several inches in diameter. Are produced from July until late in October. Very easily grown in almost any situation. 2436—Pkt., 10c.

Smilax

Charming tender perennial climber for house or greenhouse. 2435—Pkt., 5c.

Scarlet Runner-Bean

Ornamental climber. Bright scarlet sprays of bloom, followed by edible beans. 2429—Pkt., 5c.; ½ pint, 15c.



LARGE FLOWERING SCABIOSA



Shasta Daisy. Pkt., 10c.



Livingston's Special Mixed Sweet Peas

How to Grow Fine Sweet Peas

The general opinion is that Sweet Peas being common and hardy can be planted anywhere, which accounts for a lot of failures. There is no reason why every one should not have fine flowers if they will observe a few simple rules. First of all **plant early**, just as soon as the ground can be dug and is not sticky. **Dig deeply**. If you are growing sweet peas every year, try and prepare your ground in the Fall, and dig 18 inches deep, mixing manure thoroughly in the subsoil. The surface soil in which the seed is sown should not contain manure. If you start in the Fall you will find you can sow earlier in the Spring. If you can't secure manure, use bone meal or commercial fertilizers containing phosphate and potash. Cover the ground an eighth of an inch with these and then dig in and mix thoroughly with the soil. Sow the seed three inches deep if on sandy soil, or two if in clay. Sow thinly unless you have the courage to pull them out after they come up. You can't have fine flowers through the season when plants are very thick. Two to three inches apart, or better, four inches if you want big flowers. Cultivate as soon as they are up and keep cultivating. Stake them as soon as the rows show plainly. For the first month they scarcely make any growth above ground, but don't need water unless the season is very dry. Later on, when they are showing vigorous growth, a thorough watering twice a week will help wonderfully, if there is not sufficient rain. Don't plant them alongside a house, under trees or close to a board fence and expect much from them. They need an open space.

Sweet Peas

This flower is more popular than any other annual and each year we see new colors and shades developed, so that we can now procure an almost endless variety and with the introduction of the Spencer type we have a new departure, distinct in every way.

It is most unfortunate that for the past three seasons the crop of Sweet Pea seed has been almost a failure, both in this country and abroad, and it is a difficult matter to supply our customers with a varied assortment of colors this season on that account. We have, however, made up collections of both the Grandiflora and Spencer types and hope to meet all demands for seed.

Eight Best Grandiflora or Large Flowering varieties for only 25 cents Post-paid.

The greatest bargain in "grandiflora" Sweet Peas on record. Full-sized packets, finest sorts, lowest price consistent with top-notch quality. Order to-day—before you forget where you saw this offer.

2467 Dorothy Eckford—An exceptionally fine white variety as popular as the new "Spencer" type on account of its beautiful hooded flowers, borne three and even four on very long stems, making it of exceptional value to the florist.

2474 Mrs. Collier—Flowers are extra large, coming in threes and fours on a long stiff stem and of a rich primrose tint, entirely free from any trace of pink. **Richer in coloring than any other primrose variety.** Can be described as a primrose Dorothy Eckford.

2493 Phenomenal—Flowers silvery-white, faintly suffused with soft pink, and beautifully edged with rich purple, after the style of Maid of Honor, but much larger in size.

2499 King Edward VII.—The largest and best bright crimson scarlet.

2526 Brilliant Blue—Dark indigo blue.

2488 Prima Donna—Lovely soft pink, hooded form, vigorous grower.

2505 America—Brightest blood-red striped, on white ground, superb.

2515 Lady Grisel Hamilton—Beautiful silvery lavender.

PRICE Livingston's "Grandiflora" Collection of 8 Magnificent Sweet Peas as described above for only 25 cents, postpaid.

Have You a Hardy Garden?

So much interest is being displayed in the hardy perennial flowers at the present time that a few words here regarding them may not be amiss. You will find throughout our List seeds of many of the most popular sorts, and we desire to call particular attention to the Collection offered on page 17. Perennials are not difficult to grow, but most of the varieties are slower in starting than the annuals, so that care should be taken that the ground does not dry out. The ideal place to start them is in a cold frame, where the soil can be kept constantly moist, and when the young plants appear they can be protected from heavy rains. Some varieties bloom the first year from seed if this is sown early, but it is not until the second year that you get the best results, and from that on for several years these beautiful plants increase in value, affording color in the garden at a season when few, if any, annuals are blooming, and at the same time furnishing fine material for house decoration, as most of these varieties are excellent as cut flowers. *Coreopsis Lanceolata*, *Gaillardia Grandiflora*, *Shasta Daisy*, and a few others are not reliable unless they are divided and reset in the early Fall after flowering, but such varieties as *Delphinium* or *English Larkspur*, *Pyrethrum Hybridum*, *Oriental Poppy*, *Columbine* and *Sweet William* may be depended upon for years.

As it is quite expensive to purchase sufficient plants to make a hardy border and the pleasure to be derived from growing one's own stock is very great, we urge our customers to buy at least a few varieties this season, knowing that they will be amply repaid for the trouble in securing them.

New Orchid-Flowered or "Spencer" Sweet Peas

These new Sweet Peas are distinguished for their gigantic size, usually measuring two inches across; the bold, erect standard, which is uniformly waved, crimped and fluted in exquisite fashion; the charming blendings of harmonious colors, the exceedingly long flower stems, which make them unexcelled for cutting; the great profusion of flowers and the large number of flowers on the stem, usually three to four. So superior is this new type in every respect that we believe it is certain to supersede the old grandiflora kinds just as fast as new colors appear and become fixed.

This Great Collection of Superb Spencer Sweet Peas 7 Liberal Packets for 25c., postpaid

Astha Ohn

Finest lavender Spencer Sweet Pea grown. Comes remarkably true to type, producing the elegant, bold, wavy flowers in greatest profusion. 2584—Pkt., 10c.

Captain of the Blues Spencer

Purplish maroon standard and bluish-purple wings with veins of rosy purple make this exquisite sort one of the finest in our collection. The immense flowers are of true Spencer type, well waved and crinkled. 2620—Pkt., 10c.

Othello Spencer

Deep velvety maroon. By far the finest of the dark-colored Spencers. Of very large size and beautiful form. 2623—Pkt., 10c.

King Edward Spencer

Undoubtedly the largest and best scarlet Sweet Pea to date. Each stem carries from 3 to 4 enormous flowers. Wings carmine-scarlet, reverse side rosy carmine. The beautiful blossoms are carried on long, stiff stems. 2583—Pkt., 10c.

Countess Spencer

Of perfect form, remarkable size and exquisite color. The flowers are often 1½ to 2 inches in diameter, with both standard and wings charmingly waved and fluted. The coloring is an exquisite soft rose-pink, daintily tinted with silvery white. 2570—Pkt., 10c.; oz., 30c.

Helen Lewis

This superb variety is a grand gigantic orchid-flowering seedling of Countess Spencer. The orange-rose wings roll and fold; the standard is reflexed, and is of an intense rich crimson-orange. 2580—Pkt., 10c.; oz., 25c.; ¼ lb., 75c.

Florence Morse Spencer

Extremely large flowers of finest wavy form and good substance. Resembles Countess Spencer, but has an exquisite light pink edge around each petal. Fine, stiff stems usually 4 flowers to a stem. 2572—Pkt., 10c.; oz., 40c.

Senator Spencer

The combination of color in the flowers is charming—a deep claret or chocolate, striped and flaked on a ground of light heliotrope. Both standard and wings are extra large, wavy and drooping. Flowers are usually borne four to the stems. 2621—Pkt., 10c.; oz., 35c.

Apple Blossom Spencer

Is a lovely form of the old-fashioned Apple Blossom Sweet Pea. 2612—Pkt., 10c.; oz., 40c.

2615 Dainty Spencer—White, with exquisite rose-pink edges. Of uniformly large size and elegant shape. Pkt., 10c.; oz., 35c.

2622 Aurora Spencer—Very large and of true "Spencer" type. The ground color is creamy white, which is finely flaked and mottled with orange-salmon. Pkt., 10c.; oz., 35c.



Spencer Sweet Peas

White Spencer

Without doubt the largest and most magnificent White Sweet Pea ever introduced. The vines are almost completely covered with mammoth flowers. The flowers are borne 3 to 4 on a stem and are of splendid substance. It is without a rival among White Sweet Peas. 2590—Pkt., 10c.

General List of Spencer Varieties

Blanch Ferry Spencer

The popular old "painted lady" pink and white Sweet Pea in magnificent new form. 2591—Pkt., 10c.

Mrs. Routzahn Spencer

May be described as buff or apricot, suffused with delicate pink which deepens to a rose near edges of wings and standard. Usually four to a stem. 2613—Pkt., 10c.; oz., 40c.

Spencer Seedlings Mixed

All of the best-named sorts, also many rare new hybrids in lavender, blue, striped, mottled, purple, maroon and many other shades are included in this superb mixture. All flowers are of extremely large size, typically frilled and waved, and very lovely. 2630—Pkt., 10c.; oz., 30c.

2614 Beatrice Spencer—White, tinted with soft pink and buff on standard, while the wings have prominent blotches, of a brighter pink near base. Pkt., 10c.; oz., 30c.

2610 Primrose Spencer—Both standard and wings are of beautiful, soft primrose or creamy yellow color. Flowers are very substantial and in a class of their own in both color and size. Pkt., 10c.; oz., 25c.



All the Best Named Grandiflora Sweet Peas

The varieties listed below are the cream of all known sorts. Only those are included in our collection which produce flowers of the finest form and largest size. Every shade and color amongst Sweet Peas will be found. All inferior varieties have been discarded.

For the convenience of our customers we have arranged the varieties in tables according to color.

Free, if requested with order, our pamphlet, of cultural directions telling **How to Grow Perfect Sweet Peas**.

Prices for Any Sweet Peas Named Below

5c. per packet—Enough for a single row 5 feet long.

Any 6 packets for 25c.

15c. per oz.—Enough for a single row 15 feet long.

35c. per ¼ lb.—Enough for a 60-foot row.

\$1.25 per lb.—By mail, postpaid.

White

2465 New White Wonder—Flowers pure white of giant size, and borne in greatest abundance, usually 4 to 6, on a long stout stem. A unique Sweet Pea novelty.

2466 Blanche Burpee—Large; pure white; fine form, grand flower.

2467 Dorothy Eckford—A grand white. The stems are extra long and stiff and usually carry three flowers of grand size, substance and form. (See illustration.)

2468 Emily Henderson—Large, pure white, profuse, early and continuous flowering.

Creamy Yellow and Primrose

2473 Hon. Mrs. E. Kenyon—The most desirable of all Primrose Sweet Peas. Grand, large flowers, splendid form.

2474 Mrs. Collier—Flowers are extra large, coming in threes and fours on a long stiff stem and of a rich primrose tint, entirely free from any trace of pink. **Richer in coloring than any other primrose variety.** Can be described as a primrose Dorothy Eckford.

2475 Stella Morse—Has a faint tinge of pink underlying the cream, producing a true apricot shade; beautiful for bunching.



Blush and Light Pink

2478 Dainty—Crystal-white, with pink flush, deepening to a pink edge.

2479 Jennie Gordon—Standard bright rose, shaded cream; wings creamy, suffused rose.

2480 Lovely—Soft shell pink; exquisite shade; large size.

Pink and White

2484 Blanche Ferry—The popular pink and white; always reliable.

Rose and Pink

2488 Prima Donna—Lovely soft pink; hooded form; vigorous grower.

2487 Agnes Johnston—A bright rosy-standard, shaded cream; wings cream, slightly flushed with the same bright rose-pink.

2489 Prince of Wales—Very elegant rich carmine rose; a grand flower.

Blue and White

2492 Maid of Honor—Lavender and white, edged blue; very dainty.

2493 Phenomenal—Flowers silvery-white, faintly suffused with soft pink, and beautifully edged with rich purple, after the style of Maid of Honor, but much larger in size.

Maroon and Claret

2495 Black Knight—A very rich dark maroon, veined black; the darkest of all.

2496 Shahzada—Intensely dark maroon, with a tint of purple in standard and inner portion of wings.

Red and Scarlet

2499 King Edward VII.—The largest and best bright crimson-scarlet.

2501 Salopian—Rich deep crimson-red; enormous flower; elegant sort.

2500 Queen Alexandra—An intense scarlet sort, with bold expanded flowers of finest form. It is very free flowering, with long, strong stems. The flowers do not burn in the sun.

Blue and Purple

2526 Brilliant Blue—Dark, indigo-blue.

2528 Horace J. Wright—The standard when opening, is of dark bronzy color, stiffly erect, very broad and lightly folded in center. The wings are deep rich violet-purple. The face of the standard, when opened, changes to violet-purple.

Named Grandiflora Sweet Peas—Continued

(Blue Sorts, Continued)

2529 David E. Williamson—This new variety is brightly effective. The large standard is of a rich indigo-blue, the wings are lighter in shade.

2530 Romolo Piazzani—A grand blue Sweet Pea. The color is almost a true violet-blue self; the standard is only slightly hooded; grand flowers.

Lavender and Light Blue

2513 Admiration—A grand large flower of beautiful form, self-colored in a delicate shade of rosy lavender.

2514 Flora Norton—A very beautiful rich lavender, entirely free from any mauve or pinkish tinge. The flowers are large and of fine form; one of the most delicate and pleasing shades for florists' use as a cut flower.

2515 Lady Grisel Hamilton—Beautiful silvery lavender.

2516 Mrs. Walter Wright—This new giant-flowering variety is a beautiful shade of mauve, clear and bright, with wings of a bright coerulean blue, shaded slightly with mauve.

PRICE—Any of above-named Sweet Peas, pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.25, postpaid.

Our Sweet Pea Mixtures for 1914

Most people like as big a variety of Sweet Peas as they can get. To buy a dozen separate packets and mix them would be far more expensive than to buy an ounce of our Special Mixture, and even then the packets would not contain nearly the assortment of colors found in this mixture.

Livingston's Gilt Edge Mixture

This is a very superior mixture, made up of over 50 of the finest named varieties; all bright colors.

2542 Gilt Edge Mixture—Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.25, postpaid.

Ralph Hoge, Ionia Co., Mich., writes (9-3-13): "From seed ordered last Spring, have a grand, good crop of Musk-melons. Can't keep up with orders for them."



SWEET WILLIAM

Striped and Variegated

2505 America—Brightest blood-red striped white.

2506 Aurora—Orange-salmon, flaked and striped white.

2507 Prince Olaf—Large flowers striped and mottled bright blue on white ground. Very free bloomer.

2509 Jessie Guthbertson—Creamy white, boldly striped and flaked with rich dark rose.

Orange and Salmon

2521 Gorgeous—Brilliant orange-salmon; wings rose, tinged orange.

2522 Henry Eckford—The nearest approach to an orange-yellow in Sweet Peas; a beautiful color. Medium large and open form.

2523 Miss Wilmott—Enormous bold, upright flowers on stout stems. Wings and standard are of richest orange-pink, delicately shaded rose.

Fine Mixed

This mixture, for the price, will be found very satisfactory. It contains a great variety of choice colors and shades.

2543 Fine Mixed—Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 25c.; lb., \$1.00.

Livingston's Special Mixture

This superb mixture is our special pride. During the several years we have sold it, it has been our constant aim to improve and perfect it. The different kinds and sorts contained in this mixture are grown separately, so that we have an opportunity to choose only the largest and most beautiful varieties. These we mix ourselves in proper proportions for the most brilliant effect. It embraces the finest American and Eckford varieties, as well as the latest novelties, and will produce a great abundance of giant flowers of beautiful colors. Some are edged, mottled, blended, flaked and striped. Without exception, this is the very finest mixture it is possible to make. We recommend that our customers buy these seeds by weight and plant liberally.

2540 Special Mixture—Large pkt., 10c.; oz., 25c.; $\frac{1}{4}$ lb., 60c.

Sweet William (Dianthus Barbatus)

A very beautiful class of easily grown and very hardy plants of extreme richness and diversity of colors, deliciously sweet scented. For cut flowers they are not surpassed. Hardy biennial. Height 1 to $1\frac{1}{2}$ feet.

Holborn Glory

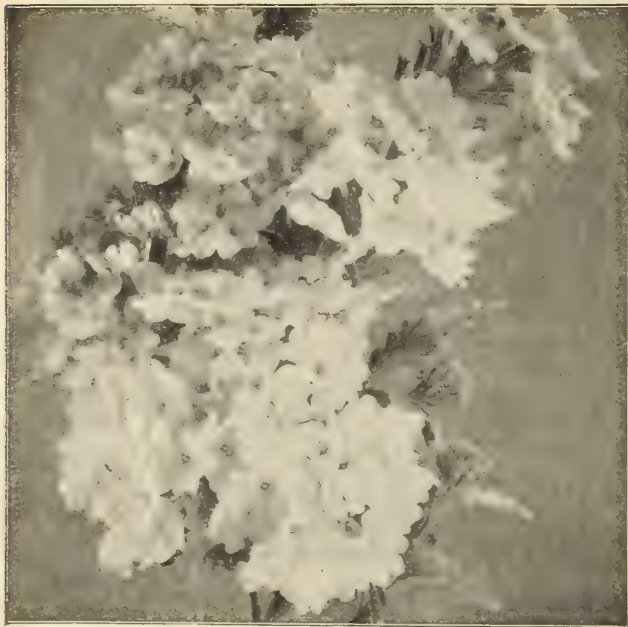
This strain is a large-flowered selection of the Auricula-Eyed section, the most beautiful and admired of all Sweet Williams. The individual flowers and trusses are of extraordinary size, and the range of color, all showing a clear, white eye, is superb. **2640**—Pkt., 10c.

2643 Double Mixed—This mixture you will find of very superior quality; containing all colors and shades. Pkt., 5c.; $\frac{1}{4}$ oz., 20c.

2646 Single Mixed—A very choice assortment of all the best single-flowering varieties. Pkt., 5c.; $\frac{1}{4}$ oz., 15c.

2648 Double and Single Mixed—This mixture is made by blending the double and single-flowering varieties. Pkt., 5c.; $\frac{1}{4}$ oz., 15c.; oz., 50c.

W. G. Leget, Washington Co., O., (Jan. 22, 1913), writes: "Your Early Hustler Tomato seed is all right for early, as they ripen first of all with us."



Livingston's Mammoth Verbena. Pkt., 10c.

Thunbergia

Rapid-growing Annual Climber, with pretty buff, white and orange flowers of various shades, with a dark center or eye. Adapted for vases, hanging baskets, trellises, etc. **2654 Mixed**—Pkt., 5c.

Valeriana

(Hardy Garden Heliotrope)—Showy plants; grow in any garden soil; do well in the shade. Hardy perennial; grows 2 feet high and blooms the first season from seed. Fine for bouquets. Bright rose, red and white varieties. **2658 Mixed**—Pkt., 5c.

Vinca

(Periwinkle)—Free-flowering, bushy plants, with glossy foliage and beautiful circular flowers. In sunny situations they bloom all Summer; if potted before frost, will bloom in Winter; very easily grown, blooming profusely the first season from seed. A very fine mixture of all colors. Half-hardy perennials. 1½ feet high. **2680 Mixed**—Pkt., 5c.

Wild Cucumber

(Echinocystis)—A rapid-growing annual climber. Has beautiful leaf and pretty, fragrant white flowers. **2695**—Pkt., 5c.; ½ oz., 10c.; oz., 15c.

Xeranthemum

(Everlasting Flowers)—Very desirable. Easy to grow. Leaves covered with silvery down. Hardy annual. 2 feet. A very fine mixture of colors. **2697 Mixed**—Pkt., 5c.

Mrs. J van E. Barry, Elliott, Fembuland, South Africa, on Mar. 12, 1913, writes: "Last year I tried some of your sample Sweet Pea and Nasturtium Seeds. Planted them in July. The month before that we had no rain, and July being our first planting month, I thought I would risk it. We had no rain since June then, the first shower only came during the last week in December; all that time I had to water the above mentioned seeds with stagnant water. They were splendid; everybody admired them and they stood the terrible drought very well. I was the only person who had lovely flowers during the seven months of drought in this town."

Livingston's Mammoth Verbenas

If it were possible, it would seem to us that Verbenas are becoming more popular every year. The plants thrive in any good garden soil, and if grown from seed are much more vigorous than if started from cuttings. Verbenas will flower perfectly from seeds, started early in the house in boxes or pots; or you may plant the seeds directly in the garden beds when the warm weather of May arrives. Height 1 to 1½ feet.

2662 Mammoth Defiance—Bright, rich scarlet; small leaves. Pkt., 10c.

2663 Mammoth Blue Varieties—Showy, distinctive; fine for edgings. Pkt., 10c.

2664 Mammoth Striped Varieties—Beautiful; a rich collection. Pkt., 10c.

2665 Mammoth Pink Shades—Many very brilliant shades of pink. Pkt., 10c.

2666 Mammoth Pure White—Large trusses of purest white flowers. Pkt., 10c.

2667 Mammoth Cloth of Gold—Golden yellow foliage; crimson flowers. Pkt., 10c.

2668 Mammoth Purple—Deep royal purple. Pkt., 10c. Collection, one each of above 7 Mammoth Verbenas, 50c.

2670 Livingston's Mammoth Mixed Verbenas—Our strain of these elegant mammoth-flowering Verbenas will make beds and borders in the garden of the greatest brilliancy. These are our best Verbenas, and for enormous flowers of rich and superb colors are unsurpassed. (See illustration.) They bloom most profusely. Our mixture contains every desirable color and shade. Pkt., 10c.; ½ oz., 25c.; ¼ oz., 40c.; oz., \$1.00.

2672 Fine Mixed—A very satisfactory assortment, containing many fine colors and shades. Pkt., 5c.; ½ oz., 15c.; ¼ oz., 25c.; oz., 75c.

Violet

(Viola Odorata)—Sweet-scented Violets are easily grown from seeds; and if you can plant them in a cool and moist situation, so much the better. All varieties are of great beauty.

2682 Sweet-Scented—Old-fashioned Blue Violet. Pkt., 10c.

2684 The Czar—Largest flowering, deep blue. Pkt., 10c.

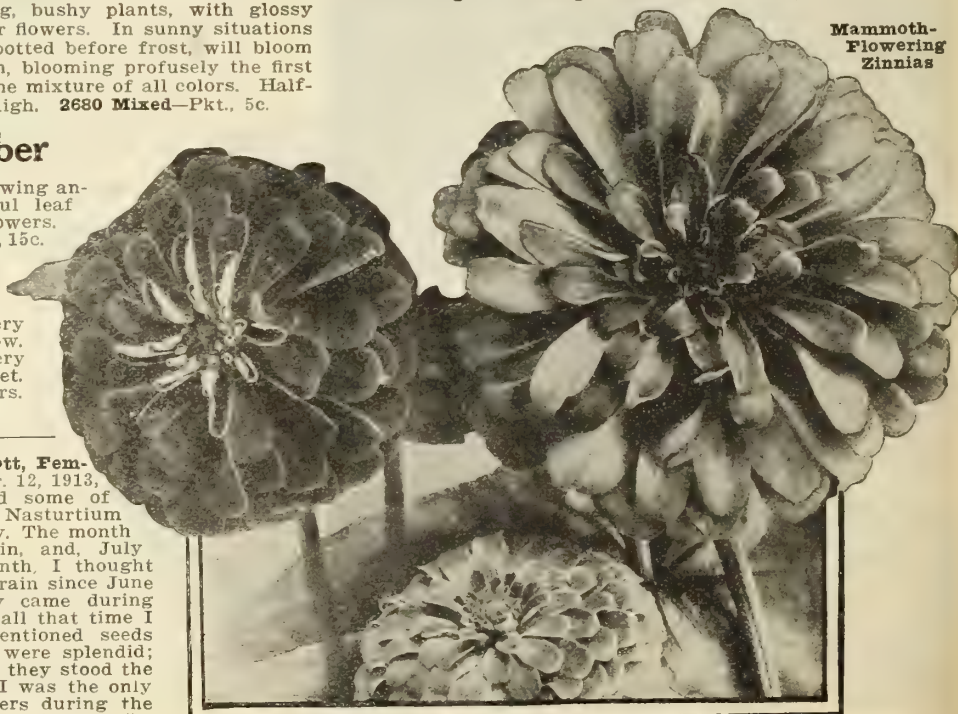
2686 Finest Mixed—Blue and white sorts. Pkt., 10c.

Wallflower

Well-known and deliciously fragrant half-hardy biennials; the large spikes of bloom are of most beautiful colors. Height 1½ feet.

2690 Large-Flowering Single Mixed—Pkt., 5c.

2692 Large-Flowering Double Mixed—Pkt., 10c.



Mammoth-Flowering Zinnias



Double Pompon Zinnias. Pkt., 5c.

Striped, or Zebra

A very pretty strain with striped flowers. Colors vary on each plant; presents a beautiful and curious appearance. 2721—Pkt., 5c.

Curled and Crested

A fine strain, with large double flowers of perfect form; petals twisted, curled and crested into fantastic and graceful forms. 2723—Pkt., 5c.; ¼ oz., 25c.

Tom Thumb, or Double Miniature

Charming, perfectly double, small-flowering class; 10 inches high; bloom profusely. Fine for borders. 2725 Mixed Colors—Pkt., 5c.

Livingston's Exhibition Aster Collection, 50c.

This magnificent collection contains the finest and most complete assortment of mammoth-flowering Asters it is possible to offer—the newest kinds, all colors, all varieties; early and late. The symmetrical globe-shaped and the fluffy Chrysanthemum sorts. They will produce a wealth of bloom, which for wonderful size, exquisite colors and variety of beautiful forms cannot be surpassed.

- 1 large packet **Simple's Giant Branching**. Finest mixed.
- 1 large packet **Giant Ostrich Plume**. Finest mixed.
- 1 large packet **Giant Comet**. Finest mixed.
- 1 large packet **Trauffaut's Peony Perfection**. Finest mixed.
- 1 large packet **Livingston's Superb Mixture of Giant Asters**, described below.

Together with the following grand new Asters:

1 packet **Vick's New Early Branching Asters**, and 1 packet of **New Violet King**, the grandest purple Aster ever introduced.

In the bag with each collection we will enclose our leaflet, "**Aster Culture**," telling how to grow **big Asters** successfully.

All for 50c., postpaid. At regular rates these seeds would cost 80c.

Zinnias, Continued

Livingston's Superior Zinnias

One of our most stately and showy border plants; a strong grower, and therefore succeeds well, even if the ground is not very rich. Excellent for cut flowers, and continuously in bloom. Height 1 to 3 feet.

Livingston's Mammoth Flowering Prize Zinnias

These splendid large-flowering Zinnias (see illustration on opposite page) represent the very highest perfection in this flower, and for perfect doubleness, mammoth size, as well as the wonderful variety of colors and shades, are unsurpassed by any strain in cultivation. We offer the following splendid separate colors and our elegant mixture.

- | | |
|--------------------------|----------------------------|
| 2700 Mammoth Crimson | 2704 Mammoth Pure White |
| 2701 Mammoth Dark Purple | 2705 Mammoth Rose-Pink |
| 2702 Mammoth Flesh-Pink | 2706 Mammoth Golden Yellow |
| 2703 Mammoth Lilac | 2707 Mammoth Scarlet |

Above 8 sorts, each 5c. per packet; ¼ oz., 25c.; oz., 75c.

2710 **Livingston's Mammoth Flowering Prize Mixture**—A gorgeous mixture containing many new and rich hues. Pkt., 5c.; ¼ oz., 20c.; oz., 60c.

Double Pompon

(See illustration.)—These Zinnias grow 2 feet high and are sturdy and bushy. They are also sometimes called "Lilliput," on account of their beautiful little flowers, which are very double and cone-shaped. 2727 **All Colors Mixed**—Pkt., 5c.

Improved Dwarf Zinnias

This strain, not growing quite so high as Livingston's Prize Zinnias, is especially desirable for borders, edgings and small beds. The individual flowers are equally large.

2714 **Improved Dwarf Mixture**—Pkt., 5c.; ¼ oz., 20c.; oz., 60c.

New Double Fringed

A very fine new type. The petals of the perfectly formed double flowers are more or less deeply cut or fringed, giving them a more graceful appearance than the usual form. The plants are of compact habit, about 30 inches high, and have all the free-flowering merits of the family. We offer three separate colors:

- | | | |
|--------------------|--------------------|-------------------|
| 2717 White. | 2718 Deep Carmine. | 2719 Bright Rose. |
| Each, packet, 10c. | | |

Collection—A packet of each of the 3 Double Fringed Zinnias, 25c.

Wild Flower Garden, or Children's Garden

Especially adapted for producing a display in large borders, or sowing along woodland walks, railroad embankments, for hiding an unsightly fence, stump, etc., Nothing in the way of flowers delights children more than this **WILD GARDEN**, chiefly because they can be allowed to pick their own bouquets without stint. Sow in drills 2 feet apart, or even broadcast. Cover lightly and keep the soil from drying out until started. 2740 **Our Extra Choice Mixture**—Large pkt., 10c.; ½ oz., 15c.; oz., 25c. Ask for Special Price by the Pound.

Livingston's Rainbow Collection of Choice Annual Flowers, 50c.

Consists of **One Full Sized Packet Each** of the following grand annuals, and is sent free by mail for **Fifty Cents**. At regular prices it would cost you \$1.00.

Asters. **Simple's Giant Branching Mixed**; Bachelor's Buttons, **Giant Flowering Imperialis**; Candytuft, **Mixed Colors**; Cosmos, **Mammoth Perfection Mixed**; Dianthus **Pinks**; Margigolds, **French**; Mignonette, **Sweet**; Nasturtium; **Giant Pansy**, **Mixture**; **Petunia**, **Blotched and Striped**; Phlox, **Livingston's Special Mixed**; Poppies, **Livingston's Giant Double Mixture**; **Portulaca**, **Mixed**; **Scabiosa**, **Livingston's Large Flowering Mixed**; **Sweet Alyssum**; **Antirrhinum**, **New Giant Flowering**; **Sweet Peas**, **Gilt Edge**. **Mixture**; **Zinnia**, **Livingston's Prize Mixture**.

18 packets for only 50 cents.

Bright Array Collection, 25c.

A most brilliant flower garden for a very little money. **One full sized packet each of the following 8 "Easy to Grow" Flowers for 25c:**

Sweet Alyssum; **Asters**, **Peony-Flowered Perfection**; **Candytuft**, **Mixed Annual Sorts**; **Nasturtiums**, **Tall Climbing**; **Pansies**, **Giant Trimardeau**; **Phlox Drummondii**; **Sweet Peas**, **Gilt Edge Mixture**; **Zinnias**, **Prize Mixture**

Gladiolus

This is probably the most popular bulb in America at the present time. We see vast fields of them being grown throughout the country to supply the immense demand which is steadily increasing and rightly so, for there is no other flower more beautiful, more useful or more easily grown. With its great diversity of color and splendid spikes of bloom which can be had from July until frost, the Gladiolus is pre-eminently the people's flower.

Niagara

This superb flower is a seedling of America and is, if anything, a little larger. It is a beautiful cream shade, a strong grower and is fast making a place for itself in its color just as America is far in the lead as a pink Gladiolus. 20c. each; \$2.00 per doz., postpaid.

Francis King

A Gladiolus which, in the short period it has been on the market, has become one of the leading cut flower varieties. It makes a remarkable growth and with its immense stalks and flowers of a brilliant light scarlet, everybody who sees it wants it, especially as it is so easy to grow. 8c. each; 65c. per dozen, postpaid. By express, not prepaid, 50c. per dozen; \$2.75 per 100; \$25.00 per 1000.

Grenadier

A fine large scarlet, darker than Francis King and a splendid cut flower variety, producing a fine spike. 10c. each; \$1.00 per dozen.

George Paul

Do you like the dark colors? Here is a beauty with immense deep crimson blooms. One of the largest, with a fine spike and thrifty growth. Try it alongside of some of the lighter shades and see how well they look. Each, 10c.; doz., \$1.00, postpaid. By express, not prepaid, \$6.00 per 100.

Klondyke

A fine light yellow with blotches of vivid crimson in the throat. A good grower and makes a beautiful bouquet. Each, 8c.; doz., 90c., postpaid. By express, not prepaid, doz., 75c.; \$4.00 per 100; \$35.00 per 1000.

Augusta

Splendid pure white with blue anthers. A lovely variety. Each, 5c.; doz., 50c., postpaid. By express, not prepaid, doz., 40c.; \$2.75 per 100; \$25.00 per 1000.

Brenchleyensis

Intense vermilion scarlet. Most popular old variety Each 5c.; doz., 50c.; postpaid. By express, not prepaid, doz., 35c.; \$2.00 per 100; \$18.00 per 1000.

Gilt Edge Collection

One each of the above fine named varieties, eight in all, costing separately 72 cents, for 60 cents, postpaid. This gives a chance to try out the best named varieties.

Collection No. 23

One each of America, George Paul, Klondyke and Francis King for 25 cents, postpaid.

Livingston's Superb "True Blue" Mixed Gladioli

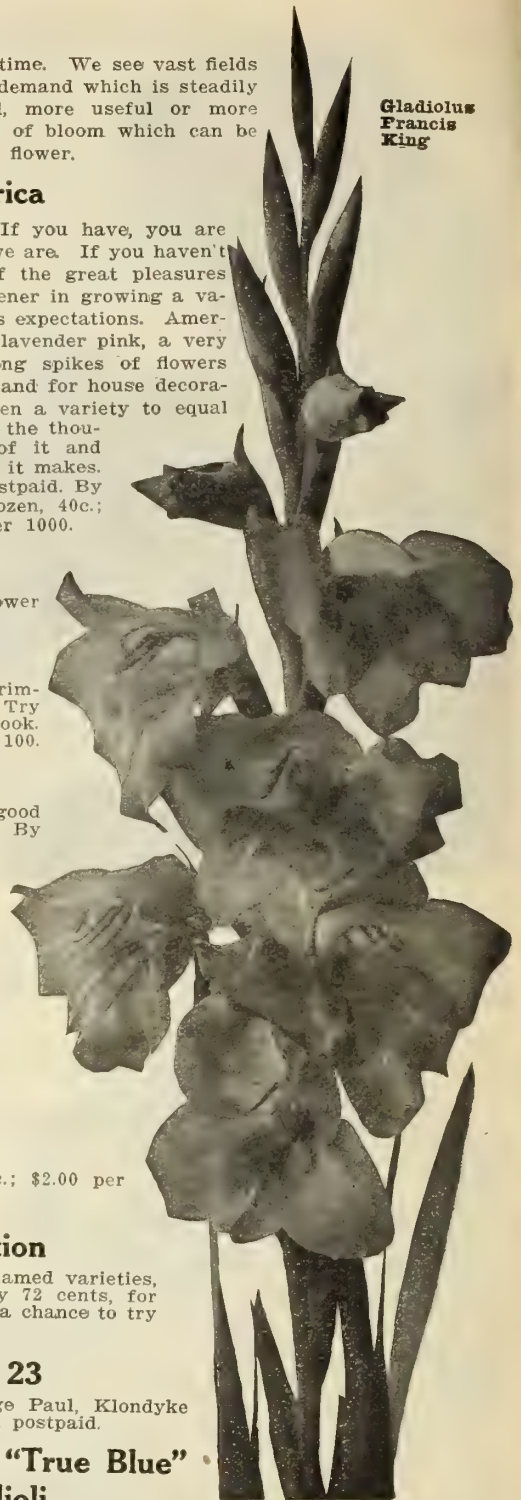
This superb mixture is composed exclusively of high-grade varieties, including many new and rare kinds. It embraces the greatest possible range of color. This mixture is our pride and contains the best large-flowering sorts.

In Grand Mixture—Each, 5c.; 6 for 25c.; doz. for 40c.; 40 for \$1.00; 100 for \$2.25, postpaid. By express, not prepaid, 100 for \$1.75; 1000 for \$15.00.

White and Light Shades, Mixed

By mail, each 5c.; dozen, 40c., postpaid. By express, 50 for \$1.50; 100 for \$2.50.

Gladiolus
Francis
King



Gladiolus America

Dahlias

The Dahlia is one of the most important Summer and Autumn flowers. Commencing to flower in July, they are a perfect blaze of bloom until stopped by frost. Especially fine for cut flowers. We grow all the kinds we offer at our "True Blue" Nursery, and spare no pains to produce superior roots of the choicest varieties.

Culture—One of the easiest of all flowers to cultivate. Deep and thorough stirring of the soil during the early growth of the plant is indispensable, but later in the season frequent surface cultivation only should be given. Plant in an open, sunny situation, at least where the sun reaches them the greater portion of the day. It is a rank feeder, and should have well-enriched soil; keep free from grass and weeds. Water regularly in dry weather. Plant the bulbs two or three inches below the surface of the ground, laying the bulb on its side. Varieties growing three feet or more in height should be tied to stakes to prevent falling over. Plant when the ground has become warm. As soon as the frost has killed the foliage the roots should be carefully taken from the ground and the soil shaken from among them; must be stored away in a cool place, not too dry, but secure from frost.

NOTE—We fill all orders with strong, divided, dormant roots. All prices are prepaid.

Peony Flowered Dahlias

This is the newest type of Dahlias and is remarkable for the large size of its flowers and its vigorous growth. It is fine in the garden or for cut flowers. If you want something fine, try this new type, which is just as easy to grow as any other variety.

Duke Henry—Brilliant red. Large broad petals.

Queen Emma—A grand variety, having flowers of a peculiar shade of pink.

Queen Wilhelmina—Immense fluffy flowers; pure white.

Souv. Franz Liszt—A dark purple maroon, veined with white. The blooms are very large and stems long.

Any of the above, 25c. each; \$2.50 per doz.; set of 4 for 90c.

Century Dahlias

These are the very latest and best form of Single Dahlias. They are remarkably strong growers and produce immense flowers on long stems, making them of exceptional value either in the garden or for house decoration. The varieties we list are the finest of the "Centuries."

White Century—A big snowy white bloom; very fine.

Rose Pink Century—A great improvement over Pink Century. A wonderfully vigorous grower producing immense flowers on 3-foot stems, making them fine for cutting.

Golden Century—A new one and a prize winner. Pure golden yellow, of large size and especially fine for cut flowers on account of its size, long stems and good keeping qualities.

Maroon Century—The darkest of all, being a deep maroon shading to black. A very rich and effective color.

Cardinal Century—A rich cardinal red of large size and very brilliant. The best single red.

Twentieth Century—This is the original "Century." Early in the season it is an intense rosy crimson shading to white at the tips and base of the petals. As the season advances the flowers grow lighter in color, the last of the season being almost white with a pure pink blotch in the center of the petals.

Any of the above, 20c. each; \$2.25 per dozen. Special offer: The set of 6 for \$1.00.



New Peony Flowered Dahlia

Pompon Dahlias

These are a miniature form of the show and fancy Dahlias, having the same round, ball-like form, but being much smaller. The plants are also much smaller, but no type produces as many flowers. The plants are literally covered and as the blooms can be cut in sprays they are valuable as cut flowers. We offer several of the most distinct.

Klein Domitea—A golden terra cotta color; very free bloomer.

Sunshine—Rich vermilion scarlet. Very fine color and flowers are produced on long stems.

Snowclad—A snowy white and remarkably free bloomer.

Raphael—Dark maroon with quilled petals.

Little Beauty—Soft, silvery pink. Rightly named.

May Clift—Bright purple.

Any of the above, 15c. each; \$1.50 per doz.

J. Marion Johnston, Pa., writes: "Shaker's Early and Livingston's Early Evergreen Sweet Corns that I bought of you late last Spring, I planted where I raised a crop of Strawberries, all matured, and supplied a market late in the season, when it was easily sold."



Show and Fancy Dahlias

The "show" Dahlias are of ball shape with full, round, regular form and cupped or quilled petals of solid color. The illustration on this page is a good example of the type. The "Fancy" Dahlias are very similar to the "Show" except that they are spotted, tipped, penciled or striped, two or more colors, or the tips of petals are lighter than the ground color of the flower.

Six of the Newest and Best Show Dahlias

Caleb Powers—One of the new varieties, a beautiful shell pink; large.

Princess Victoria—The finest pure yellow show Dahlia; great bloomer, with long stems.

Dreer's White—A pure white, of large size and a beauty.

Mrs. David Saunders—Very large, rosy lavender.

Pleasance—Intense vermilion red; very large and fine.

Prince Bismark—Rich velvety purple.

Any of the above, 25c. each; \$2.50 per doz.

Six Beautiful Fancy Dahlias of Recent Introduction

J. T. West—Yellow; heavily tipped with rich, rosy purple.

Marjorie—Buff tipped with carmine; a beauty.

Harlequin—A flower of perfect form; rich velvety crimson, tipped with white.

Chorister—Light red, pencilled with yellow.

Goldsmith—Yellow edged and striped with bright crimson; a grand variety.

Miss Cornell—White tipped with rosy purple.

Any of the above, 25c. each; \$2.50 per dozen.

Standard Varieties

A. D. Livoni (Show)—A standard variety and hard to beat. A beautiful rose pink; great bloomer and fine in every way.

Camellia Alba (Show)—A grand pure white variety.

Kaiser Wilhelm (Fancy)—One of the finest deep yellow, tipped with cherry red.

Frank Smith (Fancy)—Rich, dark maroon, sometimes tipped with pure white.

Purple Gem (Show)—A rich royal purple; very fine.

Jamaica (Show)—A dark purple shading into maroon. One of the darkest colors.

Progress (Fancy)—A clear, soft, rosy-lake, beautifully pencilled and spotted with glowing crimson.

Red Hussar (Show)—Brilliant cardinal red; one of the very best show Dahlias.

Ethel Schmidt (Fancy)—White suffused with pink and pencilled with crimson; very free bloomer with long stems.

Arabella (Fancy)—A beauty; soft primrose yellow, tipped with pink.

Lemon Beauty (Show)—A beautiful shade of lemon yellow, fine for cutting.

White Dandy (Show)—A snowy white of large size and perfect ball form, on long stems.

Any of the above standard varieties, all of which are exceptionally fine, 15c. each; \$1.50 per dozen.

The Decorative Dahlia

In form comes between the show and the cactus varieties. They are the most popular of all as they are less stiff and formal than the Show Dahlia and have greater substance than the cactus type. The flowers are large and double, but of irregular formation and varied form, having flat, incurved and reflexed petals. Generally speaking, they are the strongest growers and flower early and freely. Many of our best cut flower varieties are of this type.

New Decorative Dahlias

Manzanita—A clear, rich lavender. The purest of its color with long stems and substance which makes it valuable for cutting.

Empress Josephine—A very strong grower producing on long stems, light pink blooms lightly pencilled with purple and of great substance. The flowers are large and of perfect form.

Gaiety—A superb variety; vivid scarlet heavily marked with pure white. Away above the average of its type. The stems are long and flowers produced freely.

Manitou—A flower which is always very double and uniform in outline and of immense size—sometimes 8 inches in diameter. The color is a rich amber bronze, with a shading of pink.

Mrs. J. Gardner Cassatt—A new pink variety which has attracted much attention for its beauty of form and color and great freedom of bloom. The flowers are immense and borne on long stems. It is a beautiful rose color.

Mme. Dael—An immense flower which is proving a favorite with all and is entitled to first place amongst the lighter colors, being a shell pink. While being very large, yet it is not coarse and the stems are long and wiry. It is certainly a choice variety.

Umatilla—A Dahlia of superior merit on account of its remarkably long stems and good keeping qualities. In color it is a deep blood red.

Any of the above new Dahlias, 25c. each; \$2.50 per dozen.

Decorative Dahlias Standard Varieties

Henry Patrick—Pure white flowers; large and fine.

Dr. Gates—Beautiful shell pink; long stems, and fine for cutting.

Catherine Duer—A bright crimson scarlet; very fine and wonderfully popular in the East.

Clifford W. Bruton—A standard yellow variety; large and perfect.

Grand Duke Alexis—White edged with lavender; very pretty and a satisfactory grower.

Jack Rose—The best crimson for garden decoration or for cutting. Its color is so near the "Jack" rose that it was given the name to distinguish it.

Blue Oban—A soft lavender, nearest to blue in Dahlias.

Nymphaea—A very delicate Shrimp pink.

Minnie McCullough—Very fine; a soft golden yellow tipped with bronze red. A perfect flower produced on long stems.

Sylvia—Deep pink, of large, perfect form on long, stiff stems. One of the best for the garden or for cutting.

Yellow Duke—Canary yellow; very large flowers on long stems.

Zulu—A popular variety called the "Black Dahlia," being a very dark maroon.

Lyndhurst—The brightest vermilion and the best of its color for cutting. An early, free and continuous bloomer with long stems.

Frank L. Bassett—Very free bloomer, and a rich color, being a purplish blue.

Any of the above standard Dahlias, 15c. each; \$1.50 per dozen.

Some lists may contain a much greater variety of names, but we do not believe there are any better assortments than ours. It is well to remember that there are numerous Dahlias on the market, which have beautiful flowers but have such poor stems and are such weak growers that they are really useless. We have endeavored to offer you the types and varieties of real merit, considering their vigor, freedom of bloom and length of stem, and should like to have your order for Dahlias.

The Growing of Summer-Flowering Bulbs

The Caladium Esculentum or Elephant Ear is readily grown if one bears in mind that the beauty of the plant lies in its large, sub-tropical foliage and to obtain a rank growth one must provide rich soil and an ample amount of water. If these are given, a single plant will grow to a height of six feet with mammoth leaves, four by three feet. Give each plant a bucket of water every day that it does not rain and about once a week add a teaspoon full of nitrate of soda to the water. Take up the bulbs in the Fall after the leaves are frozen; cut off the tops and store the bulbs in a cool place free from frost.

Cannas are very generally used throughout the country as bedding plants, where large beds are planted or bold, sub-tropical effects are required. There are no plants which adapt themselves so well to our varied climate and with the introduction of many new forms of flower and foliage, we have to-day in the Canna probably the most satisfactory bedding plant grown. From a 3-inch pot plant set out after danger of frost is past we can get a six-foot plant by Fall, with quantities of brilliant flowers. Then, when the frost has killed the tops, cut them off and dig the roots. Do not shake the soil off, but put the roots in a box with what soil that sticks to them and store in a cool frost-proof place until Spring, when, if you have a place for it you can start the roots into growth, or about the middle of May set the roots out in the open ground. The

roots will stand dividing and each new shoot will make a good, large plant, if you want to increase your stock.

When it comes to Summer flowering bulbs, the Gladiolus is the most popular and effective of all, useful alike for garden decoration and as cut flowers. The bulbs can be planted from the middle of April on setting them six inches deep, if the soil is a loam and mellow, or four inches in stiff clay. The bulbs can be planted right up to the first of June and will, of course, flower late in this case. When frost has killed the tops, dig up the bulbs and cut stalks off about two inches above the bulbs; then place where they can dry off for a couple of weeks; after this rub off the old bulb at the base of the new growth, also the balance of the stem and store in a cool frost-proof place. Save all the small bulblets which you find at the base of the bulb; sow them the following Spring like peas and the second year from planting they will flower. Handle these small bulbs same as you do the larger ones.

Lilies are harder to grow than other bulbous flowers, but are so beautiful one can't do without them. The bulbs should be set at least six inches deep and in a partially shaded place. If the soil is sandy, so much the better but they must never be put where water will stand, and if you mulch them in the Fall with a good foot of leaves or straw, removing it soon as the frost is out in the Spring, you will find the Lilies will do very much better.





Cactus Dahlias

This type has become wonderfully popular of late years until now there are hundreds of varieties offered making it very confusing for the amateur to make a selection. We have endeavored to list some of the most meritorious of the new varieties and the best of the Standard kinds.

Etruria—Golden yellow, shading to reddish salmon; very large on long slender stems.

Mrs. H. Shoemith—The best white cactus Dahlia.

Mrs. McMillan—Soft silvery pink, free bloomer.

Ruth Forbes—Deep pink; large. A strong grower with long stems.

T. G. Baker—Very large, finely formed. The best clear yellow cactus Dahlia.

Liberty—A fine variety of beautiful form, rich velvety maroon, tipped with crimson.

Thomas Parkins—Large flowers of a bright terra cotta, strong grower, with long stems and fine for cutting.

Any of the above 25c. each; \$2.50 per doz.

Standard Varieties

Kriemhilde—Deep rosy pink. Good keeper.

Mont Blanc—A fine white variety with long stiff stems.

Prince of Yellows—Soft golden yellow and free bloomer.

Standard Bearer—Bright, clear scarlet; very free bloomer.

Floradora—Fine form and free bloomer; a pure garnet in color.

Juliet—Rosy pink, tinting lighter toward the center; very large and fine.

Any of the above 15c. each; \$1.50 per doz.

Six Exceptionally Fine Varieties for \$1.00

Burbank—A vivid vermilion scarlet; tall grower and late bloomer; long stems.

J. B. Briant—Golden yellow, with a slight shade of pink on tips of petals.

Mrs. H. J. Jones—A clear scarlet with band of white running through each petal.

Princess—A beautiful soft pink flower of largest size.

Pius X—An exceptionally fine white cactus.

Countess of Lonsdale—The best cactus Dahlia, all things considered. A very free bloomer, fine stems and good color—a blending of amber and salmon pink.

Any of the above 20c. each. The entire six for \$1.00.

Lilies

Plant bulbs in the Spring as soon as frost is out of the ground. Select a well-drained spot, dig the soil deep and make it fine, enriching it abundantly with well-decomposed cow manure, adding a liberal mixture of sand.

Auratum

(Gold Banded)—Flowers pure white, thickly studded with crimson spots, while through the center of each petal runs a clear gold band. First size bulbs, each, 15c.; 3 for 40c.; doz., \$1.50. Mammoth bulbs, each, 25c.; doz., \$2.50.

Album (Speciosum)—Pure white; very fragrant; free-flowering; hardy. First size bulbs, each, 35c.; 3 for 40c. Mammoth bulbs, each, 25c.

Melpomene—Pure white, spotted crimson; petals recurved. Each, 15c.; doz., \$1.50.

Rubrum (Crimson Banded)—White, heavily spotted with rich crimson. First size bulbs, each, 15c.; 3 for 40c.; doz., \$1.50. Larger bulbs, each, 25c.

Tenuifolium—Fiery scarlet flowers. Each, 20c.; doz., \$2.00.

Tigrinum, Flore Pleno (Double Tiger Lily)—Bright orange scarlet, with dark spots; entirely hardy. Each, 10c.; doz., \$1.00.

Tuberoses

One of the most delightfully fragrant and beautiful Summer-flowering bulbs. Its waxy-white flowers are the sweetest scented that grow. The growing plant is fond of light and heat and should not be planted outside before April 1.

Our Tuberoses are grown and cured with the greatest possible care, and all are flowering size. For large, perfect flowers we recommend the larger sizes.

Double Dwarf Pearl Tuberoses—Flowers, large size and very double. Extra size bulbs, by mail, postpaid, each, 7c.; 4 for 25c.; doz., 65c. By express, not prepaid, doz., 50c.; 100 for \$3.00. First size bulbs, by mail, postpaid, 3 for 10c.; 6 for 15c.; doz., 25c. By express, not prepaid, doz., 20c.; 25 for 35c.; 50 for 60c.; 100 for \$1.00.

Cinnamon Vine

Perfectly hardy. Attains a height of from 15 to 25 feet. Brilliant glossy foliage and an abundance of fragrant flowers. Each, 5c.; 6 for 25c.; doz., 40c.

Maderia Vine (Climbing Mignonette)

Rapid-growing vine; easy to grow; light green leaves; bears small, white, feathery, fragrant flowers; free from insect pests of all kinds. Each, 5c.; 6 for 25c.; doz., 40c.; 100, \$2.25.



Caladium or Elephant Ear

Caladium

Plants attain a height of from 4 to 6 feet, the leaves being veined with different shades of green; when massed alone or with Cannas, they produce a striking and beautiful effect. They are of easy culture, and will grow in almost any garden soil, but if especially large plants are wanted they should be planted in a well-enriched soil and given water in abundance throughout the season. The bulbs may be kept over Winter by taking up in the Fall when frost kills the foliage; leave some soil on the roots, dry gradually in an airy, shady place for several days, then pack in a shallow box in a dry sand or soil, store in a dry cellar where it does not freeze.

Caladium Prices

Prices by Mail, Postpaid

5 to 7 inches in circumference....	Each, 10c.	5 for 45c.
7 to 9 inches in circumference....	Each, 20c.	5 for 85c.
9 to 11 inches in circumference....	Each, 25c.	5 for \$1.25
10 to 12 inches in circumference....	Each, 40c.	5 for \$2.00

By Express, not Prepaid

5 to 7 in. in circumference....	10 for 80c.	100 for \$5.00
7 to 9 in. in circumference....	10 for \$1.25.	100 for \$7.50
9 to 11 in. in circumference....	10 for \$2.50.	25 for \$5.75
10 to 12 in. in circumference....	10 for \$3.75.	25 for \$8.50

Livingston's Superb Cannas

The Canna is one of the most beautiful of all Bedding Plants

We make a specialty of Cannas at our "True Blue" Nurseries, and the fields are much admired. No other plant is better adapted to this country, and nothing which costs so little excels them for masses and beautiful foliage, as well as the abundance of dazzling bloom in many shades.

Plant outdoors about the middle of May, if the weather is warm and settled, two feet apart. We send out plants only, as we find they give better satisfaction than the dormant roots. We send free on application an illustrated leaflet on the cultivation and care of Cannas.

At the single and dozen prices we forward Cannas postpaid. If you need large quantities of Cannas, ask for special quotations.

New Canna Firebird

The best red-flowered green-leaved Canna

Said To Be Even Better Than King Humbert But With Green Foliage

Claimed by many to be the very best red-flowered, green-leaved Canna to-day. The flowers are borne in immense trusses, on tall stalks well above the leaves. They are of splendid form, round and shapely. The petals measure $2\frac{1}{2}$ inches and over across, and the color is a clear glistening scarlet without any streaks, spots or blotches. We have tested many varieties during the past 30 years and have never seen one that surpassed it. 3-inch pot plants, \$1.25 each.

King Humbert

(See illustration page 121)—This is certainly the King of all bronze-leaved Cannas. It produces giant flowers of a brilliant orange-scarlet and these combined with its beautiful bronze foliage have made this variety the sensation of the past few years. It is a hybrid of the Orchid-flowering and French or Crozy type, and has all the merits of both. Either as specimen plants or in beds this beautiful variety shows its superiority over all other kinds, and we hope all our customers will order some plants of King Humbert, knowing that in so doing they will be getting the best bronze-leaved variety on the market to-day. Each, 20c.; doz., \$2.00.

Stuttgartia

Four and a half feet. Broad leaves, dark green, of majestic growth, flowers glowing orange-scarlet with canary-yellow band and peculiarly marked and mottled. The mammoth flowers are borne on strong stems and are carried erect above the foliage. The variety has the size of Orchid-flowering Cannas, as well as the richness of the Crozy types. Each, 25c.; 3 for 65c.; doz., \$2.50.

Mrs. Alfred Conard

Four feet. Green foliage. Flowers salmon pink of large size on finely shaped flower heads which are borne well above the foliage. Each, 50c.; 3 for \$1.00; doz., \$4.00.



New Canna Firebird



Giant Flowering Canna Burbank

John Farquhar

Foliage bright, metallic brown red of particular beauty. Flowers salmon red streaked orange. The flowers which are borne well above the foliage form a beautiful contrast over the magnificent foliage. 4 feet. 25c. each; \$2.50 per doz.

A dark-leaved Canna which has attracted a vast amount of attention because of its effectiveness. On account of its massive foliage, which is of such a wonderfully rich color, a glistening bronze purple shading into black, and its vigor, it is at the head of all ornamental bedding plants, where sub-tropical effects are desired. The plants grow 5 to 6 feet high and it is wonderfully popular although its flowers are smaller than some other varieties. 20c. each; \$2.00 per doz.

Giant Italian or Orchid-Flowered Cannas

These are the largest of all Cannas, both in flower and foliage, the plants growing 6 to 8 feet in height, with flowers frequently 6 inches in diameter. We have added to our list this year and offer all that are really desirable

Austria—Pure canary-yellow; fine large open flowers, with few reddish dots in the centre of the two inside petals.

Wyoming—Purple foliage, giant Orchid-flowered orange colored, large round silken petals. Height, 7 feet. Each, 25c.; doz., \$2.50.

Italia—Bright orange-scarlet, with broad golden-yellow border; the flowers are produced on massive stems, set well above the foliage, which is large and heavy.

Burbank—Green foliage. The flowers are gigantic in size. Toward the inner part the petals show fine crimson spots; all the rest of the flower is of a rich canary-yellow. 5 feet.

Aliemania—Enormous flowers; outer petals scarlet, with broad yellow border; inside of bloom scarlet; foliage dark. 4 to 6 feet.

Above, each, 15 cents; \$1.50 per dozen, except as noted.

Cannas Varieties of Recent Introduction

Mephisto

One of the darkest crimson varieties yet introduced. The flowers, which are of large size, are held well above the bright green foliage; 3½ feet. 20c. each; \$2.00 per doz.

Dr. Budingen

One of the most brilliant scarlets, both the individual flowers and the trusses being of large size; bronze foliage; 4 feet. 20c. each; \$2.00 per doz.

New York

A bronze-leaved, Orchid-flowered variety, with very intense brilliant carmine flowers of great beauty. A strong grower; 6 to 7 feet. 20c. each; \$2.00 per doz.

Professor Romberg

A brilliant rich fiery red, flowers of medium size in large trusses held well above the bronzy foliage; 3½ to 4 feet. 20c. each; \$2.00 per doz.

Rosea Gigantea

Extra large flowers, borne in such abundance that the mass of color on each plant is truly amazing; individual petals are 2½ inches across; a deep, rich rose, almost a coral-carmine; 4 to 5 feet. 35c. each; \$3.50 per doz.

William Saunders

A gorgeous bronze-leaved variety; flowers of a bright crimson-scarlet, often measuring 5 inches across, of remarkable substance and durability; 4 feet. 25c. each; \$2.50 per doz.

Mrs. Carl Kelsey

Green foliage, orchid flowering with narrow edge of purple. Orange scarlet flaked and striped with golden yellow petals which have a wavy edge; 6 to 7 feet. 25c. each; \$2.50 per doz.

Pfitzer's Meteor

A clear orange scarlet, strong, robust grower and extra free flowering; 4 feet. 25c. each; \$2.50 per doz.

Hungaria

Very compact; almost dwarf and of a very luxuriant growth. Leaves bluish green, never burns. Trusses of enormous size, borne well above the foliage. Flowers very large with very broad petals. Color purest La France pink with satin sheen. The most delicate pink in Cannas. 3½ feet. 50c. each; \$4.00 per doz.

Charles Lutz

A magnificent new sort; foliage large, vigorous and of a healthy green. Flowers very large yellow, might describe this as a green-leaved, yellow-flowering King Humbert, because it has the same massive foliage and immense flowers. 4½ feet. 45c. each.

Black Beauty

King Humbert

While we list this on page 119 we again call attention to it here, as we believe there is no more valuable *Canna* offered to-day in the bronze-leaved section. It does not appear to have one fault and is sold throughout the country each year by the thousand. It combines the good points of the French free-flowering varieties with the size and vigor of the Orchid-flowering *Cannas*. 20c. each; \$2.00 doz.

General List of Standard Varieties

Black Prince

Green-leaved tall-growing sort with showy crimson scarlet flowers, overlaid with maroon. Each, 15c.; \$1.50 per dozen.

Madame Crozy

Bright scarlet, gold border to each petal. Foliage green. A well known and popular variety. 3½ feet.

Queen Charlotte

Rich crimson-scarlet with wide gold border on every petal; a profuse bloomer; broad green leaves. 3½ feet.

Souvenir d'Antoine Crozy

Large full spikes; rich crimson flowers, bordered with golden yellow. 3 to 4 feet.



Canna
King Humbert

Buttercup

Bright buttercup yellow; large flowers in fine trusses. Handsomely formed, always clear and bright. 3 feet.

Florence Vaughan

Large yellow flowers, dotted with bright red. Very broad bright green leaves. 4 feet.

Venus

Vigorous growing sort with erect stems and magnificent trusses of large size and perfect form. Petals are oval, exquisitely colored and variegated; warm rose pink, mottled near center with creamy white edges. A superb variety.

Express

Flowers are bright scarlet, with broad petals and compact truss; blooms freely until frost. A splendid variety. 3 feet.

Mont Blanc

Almost pure white; foliage large, handsome, green. Blooms on strong stems well above the foliage. 3½ feet.

Alphonse Bouvier

Standard crimson; large, bright. 6 feet.

Beaute Poitevine

Ideal bedding *Canna*; always in good condition in all kinds of weather; bright rich crimson. 3 ft.

Richard Wallace

A pleasing canary yellow with exceptionally large flowers, which are carried well above the foliage; one of the best yellow bedders. 4½ feet.

Jean Tissot

One of the brightest; color an intense, brilliant vermillion, with bright orange shadings, a color that can be seen as far as the eye will carry; massive foliage. 5 ft.

Long Branch

The flowers resemble a giant flowering *Queen Charlotte* in the Orchid-flowering class, being bright crimson with wide, irregular border of yellow which stands the sun equally as well as *King Humbert*. 5 feet.

Alsace

Pale sulphur, changing to creamy-white; planted in conjunction with the high-colored sorts it makes a fine contrast. 4½ feet.

Rubin

Flowers ruby carmine; very rich and glowing; foliage dark bronzy green; great bedding sort. 3 feet.

Duke of Marlborough

One of the finest of the very deep crimsons; fine individual blooms in large trusses, and exceptionally free-flowering and attractive. 4 feet.

Any of the above, 15c. each; \$1.50 per doz.



Queen Charlotte

Spraying Tools and Requisites

If we would spray intelligently we would have more and better fruits, vegetables and flowers

The many complicated and complex conditions with which we are surrounded make it impossible for fruit and vegetable growers to keep the grounds entirely free from fungus diseases and insects. The best we can do is to control them by the proper use of remedies that have been found most effective by competent experimenters. So long as the foes cannot be exterminated the battle must be kept up, and he who expects perfect fruit and vegetables must take advantage of every known help in the fight. We have endeavored in the following list to offer only thoroughly tried tools and remedies of proven value. If you want an abundant harvest, select such apparatus and remedies as will help you most effectively in your battle and start the fight early.



Ideal Spraying Outfit

The Pump barrel is 1 1/4 inches in diameter, 7 inches in length. The valves are bronze balls, which allows free passage for the liquids and prevents clogging. Both valves are removable. The pump handle is of iron and extra long and a pressure of one hundred and fifty pounds can be easily maintained with it. A mechanical agitator keeps the liquid well stirred. A fine strainer at the opening in the suction pipe prevents anything getting into the working parts. Two outlets for liquid are provided and the pump has the following equipment:

10 feet 2-inch Pressure Hose; 10 feet Pipe extension, in three pieces; 1 T Handle Shut-off Cock; 1 Brandt "Ideal" Nozzle.

Shipping weight, crated, 65 pounds. Price by freight or express, \$20.00.

The Simplicity Automatic Sprayer (All Brass)

Operates by Compressed Air. This is adapted to be carried from the shoulder.

To operate, put 3 1/2 gallons of liquid in tank, pump up 50 lbs. air pressure (about thirty full strokes), and the outfit is ready for use by opening the stop cock. The tank can be recharged while the sprayer is working.

The valve is so arranged that the washers may be renewed without removing the pump from tank. By turning the handle so as to engage a claw device on it, the handle will serve as a convenient means for transporting the outfit.

The equipment includes 1 1/2-inch by 18-inch brass air pump; 4 feet of discharge hose; one 2-foot length of spray pipe; one shoulder strap for converting to knapsack; one funnel strainer, one stop cock; one misting nozzle; one general spraying nozzle; one solid stream nozzle for fire extinguisher. Weight of Sprayer, 15 lbs. Price, \$9.10.



Simplicity Sprayer

The "Perfection" Sprayer

This high pressure type is larger and much more powerful than anything in its class, and is as near burst-proof as it can be made. The barrel is 7 1/2 inches in diameter, 20 inches high. The pump is 1 1/4-inch seamless brass tubing. The valves are METAL. The top is fastened like the best makes of fire extinguishers. The hose is 5-ply. The nozzle is of the Automatic type. Capacity of Sprayer, 3 3/4 gallons. Weight, 9 1/2 lbs. All Sprayers tested to 60 lbs. before leaving factory.

This Sprayer handles whitewash, water, paints, Bordeaux mixtures, etc., perfectly. For whitewash and all heavy mixtures it is necessary to use a No. 2 Cap in nozzle, which is furnished with Sprayers.

Price—All Brass, \$7.50; Galvanized, \$5.00.

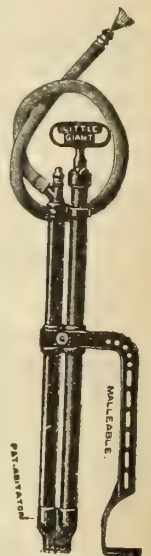


Perfection Sprayer

Myers' Little Giant Bucket Spray Pumps

(See cut)

Constructed entirely of brass, which is not affected by the poisons used in spraying fruit trees, vines and shrubbery. Are so arranged that the labor of pumping is all done on the downward stroke of the piston and nothing on the up, which has the effect of holding the pump down. The foot-rest steadies the pump. Will throw a solid stream 50 feet and are very useful for washing windows and buggies, sprinkling lawns, flowers, etc. Price, with Rubber Hose, \$3.00. With 8-foot Extension Rod, \$3.50.



Myers' Little Giant Bucket Spray Pump

Brownie Dry Powder Gun

A splendid machine for distributing insecticides in a dry form. A great time saver. One man can cover one acre an hour. Directions accompany each machine. Price, \$4.00.

Leggett's Champion Dry Powder Gun

An excellent machine of greater capacity than the Brownie. Price, \$8.00.

Lowell Dust Gun

For applying dry powders, such as Slug Shot, White Hellebore, Paris Green, etc. Rapid and economical. (See illustration, p. 123.) Price, 75c.

Prices Net—When ordering goods from this page to be mailed, ask postmaster for amount of postage to remit.

The Eclipse Barrel, or Tank Spray Pumps

The Eclipse Pumps are without doubt the most practical of any offered. The originators are to-day extensive fruit growers and know just what is needed.

Eclipse No. 4—All working parts are of the best red and seamless brass. Detachable Cylinder, New Automatic Adjusting Plunger, "Eclipse" Agitator, Patent Valves and Cage, Steel Air Chamber, Cylinder 1 3/4 inches in diameter, stroke 4 to 5 inches, capacity 60 to 75 gallons per hour, reduced to a fine mist; carries one double Vermorel Nozzle or two single; large or small opening. Price, Pump alone, \$8.00.

Eclipse No. 4, Outfit B—Pump, complete, with 10 feet of best 1/2-inch Hose, 10-foot Bamboo Brass-Lined Extension Rod, Leakless Cock and Double Vermorel Nozzle, with new swivel joint and extra caps for long distance work. Price complete, ready to go to work, \$12.75.

Brass Air Chamber in place of iron, \$2.00 extra.

Eclipse No. 5—Similar to above, but has cylinder 2 1/4 inches in diameter. Air Chamber 2 1/2 x 32 inches; malleable iron Clinch Plate and Lever; Steel Air Chamber; Brass Base, Cylinder, Valve and Cage, Discharge Tube and Agitator. Capacity 125 to 150 gallons per hour, intended for 3 nozzles. Price, Pump alone, \$10.

Eclipse No. 5, Outfit B—With 10 feet Hose, 1 Bamboo Brass-lined Extension Rod, Leakless Cock and 1 Double Vermorel Nozzle, \$15.00. With brass Air Chamber in place of steel, \$2.50 extra.

Eclipse No. 407, Outfit D—Same as Outfit B, with the addition of 10 feet of Hose, 8 feet of Bamboo Extension Rod, and Double Vermorel Nozzle. Double Outfit, complete, \$20.00.

Brass Air Chamber in place of steel, \$2.50 extra.

Myers' Improved Barrel Spray Pump No. 305 B

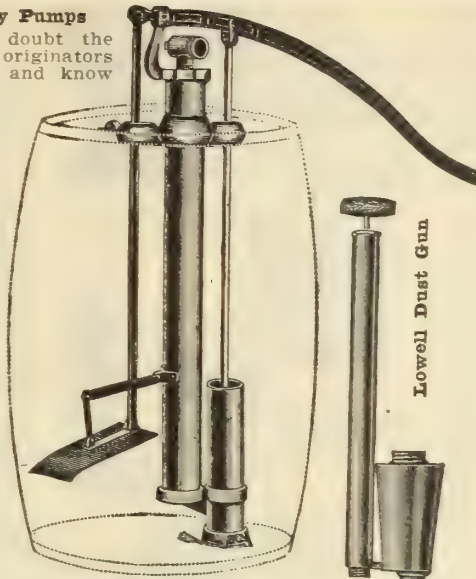
No. 305 B, with mechanical agitator, Fig. 1394, complete with 15 feet of 1/2-inch, five-ply discharge hose and Myers' graduating Vermorel nozzle. Price, \$10.00.

Friend's Nozzle

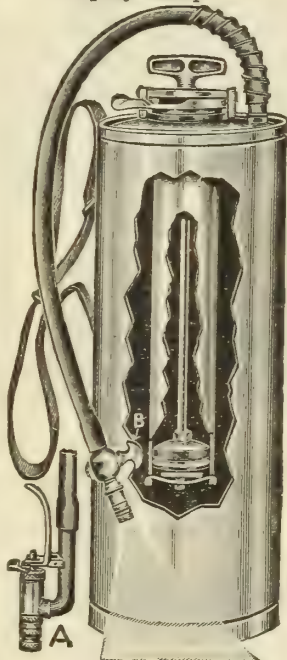
(See illustration to right, below)—

The original large spray nozzles, doing away with the cluster. They have no horns or hooks—nothing to catch, drip or clog.

The "Angle" sprays up under the leaves and down into the calyx. The "Regular" is for ordinary work. State which is wanted. Price, \$1.00 each; weight 1 lb.



Eclipse Barrel or Tank Spray Pump



The "Auto-Spray"



Lowell Dust Gun

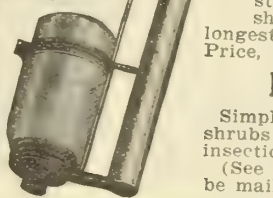


Angle Sprinkler



Rubber Sprinkler

Lowell Sprayer



The "Auto-Spray"

Works automatically for 6 to 15 minutes, according to the nozzle opening. It may be started in 15 seconds by a few strokes of the plunger.

The "Auto-Spray" has a capacity of four gallons, and when properly charged contains three gallons of solution and one gallon compressed air. Eight to twelve strokes of the plunger will compress the air, and two pumpings will discharge the entire contents. Three gallons of solution or one charge will easily cover one-half acre of potatoes or other similar crop. Galvanized Iron Tank, with Auto-Pop Nozzle, \$5.00; Solid Brass Tank, with Auto-Pop Nozzle, \$7.20.

Auto-Pop Spray Nozzle—In operation a lever is moved by simply closing the hand, thus opening the valve and allowing an instantaneous discharge of spray. By releasing the lever it closes itself automatically, hence the spray is in perfect control. Each, \$1.25.

Extension Rods for Auto-Spray, 2 feet long. Each, 50c.

Garfield Knapsack Sprayer

(See illustration below)

Made entirely of brass and copper. Tank holds 4 gallons, has 4 feet best rubber hose, brass pipe 15 inches long and Combination Vermorel Nozzle attached. Without Agitator, price, \$11.00.

Improved Vermorel Nozzle

The greatest economy of spraying liquid may be secured by using this Nozzle. Price, 3/4-inch, with 2 caps A, 75c.; weight 1 lb.

Angle Rubber Sprinkler

This sprinkler is designed for applying water or liquid insecticides on the underside of leaves and foliage. Price, \$1.00; weight 1 lb.

Rubber Sprinkler

Size No. 1, \$1.00; weight 1 lb., No. 2, 90c.; weight 1 lb.

Non-Clog Atomic Nozzle

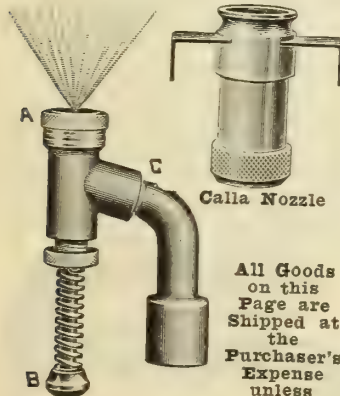
A new nozzle of large capacity and force. Can be regulated so as to throw a very fine and wide angle or a very long concentrated form of spray. One of the best nozzles. Price, \$1.25; weight, 1 lb.

Calla Nozzle—A cheap, but reliable Nozzle. Has two grades of spray and a solid stream, governed by slide shown in cut. One of the longest distance nozzles in use. Price, 75c.

Lowell Sprayer

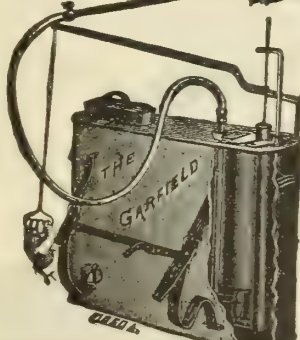
Simple and cheap for spraying shrubs and plants with water or insecticides.

(See cut.) Each, 75c. Cannot be mailed.

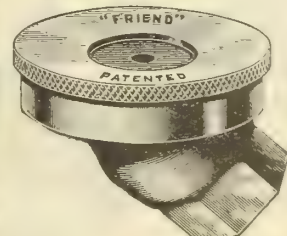


Calla Nozzle

All Goods on this Page are Shipped at the Purchaser's Expense unless quoted "Prepaid"



Garfield Knapsack Sprayer



Friend Nozzle, Angle Spray



Friend Nozzle, Regular Spray

Vermorel Nozzle

Prices Net—When ordering goods from this page to be mailed, ask postmaster for amount of postage to remit.

Steel Swinging Brackets

Made of steel. Artistic in design. Finished in black; very handsome. Spring clasp prevents pot from falling. No. 1, weight 1 lb., for 5-inch pots, has 8-inch arm. No. 2, weight 1 lb., for 6-inch pots, has 10-inch arm; each, 35c.; doz., \$3.50. No. 3, weight 2 lbs., for 7-inch pots, has 12-inch arm; each, 40c.; doz., \$4.00.

Van Ruyper's Glazing Points

Per box of 1000, 60c.; weight 1 lb. Lots of 500 and over, per box, 55c. **Pinchers** for driving, 60c.; weight 1 lb.

Siebert's Glazing Points

5/8-inch size, 1200 to lb., per lb., 40c.; 7/8-inch size, 800 to lb., per lb., 40c.

Neponset Flower Pots

Are made of tough waterproof fiber paper unbreakable and the best pot made for starting plants in hot-beds or greenhouses and for shipping and marketing. For lightness and cheapness they have no equal.

	Per	Per	No. in
	100	1000	Crate
2 1/4 inches.....	\$0 25	\$2 42	1000
2 1/2 inches.....	30	2 78	1000
3 inches.....	45	3 24	1000
3 1/2 inches.....	60	5 24	1000
4 inches.....	80	6 60	500
5 inches.....	1 20	10 96	500
6 inches.....	1 65	14 68	500

Wood Pot Labels

Painted Pot Labels—Best made.	Put up in packages of 1000 each.	
4 x 5/8 inch.....	per 1000	\$0 70
4 1/2 x 5/8 inch.....	"	80
5 x 5/8 inch.....	"	95
6 x 5/8 inch.....	"	1 20
10 x 5/8 inch.....	"	2 50
12 x 5/8 inch.....	"	3 00

Wood Garden Stakes

For Labeling	Painted
8x 7/8-inch. Per 100	45c Per 1000
10x 7/8-inch. " "	60c " "
12x 1 1/8 inch. " "	75c " "

Eureka Fumigators

Made of Best Galvanized Iron	
For greenhouse 10x 20 feet.....	\$1 25
" " 12x 40 feet.....	1 75
" " 15x 100 feet.....	2 25
" " 20x 100 feet.....	3 25

Plant Bed Cloth

A protecting Cloth of Waterproof Fiber; excellent substitute for glass, late in season. All pieces are a yard wide and contain from 40 to 60 yards each. Heavy grade, per yard, 15c.; weight 7 oz.; by the piece, 40 to 60 yds., per yd., 13 1/4c. Medium grade, per yd., 10c.; weight 3 3/4 oz.; by the piece, 40 to 60 yds., per yd., 9 3/4c. Light grade, per yd., 5c.; weight 1 1/2 oz.; by the piece, 40 to 60 yds., per yd., 4 1/2c.

Hot-bed Sashes

Best Cypress—3 1/2 x 6 ft., unglazed for 4 rows 8x10 glass. Each, \$1.25; 10 for \$12.

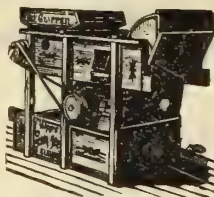
Our sales of Hot-bed Sashes are increasing each season, so satisfactory do our customers find them.

Putty Bulb

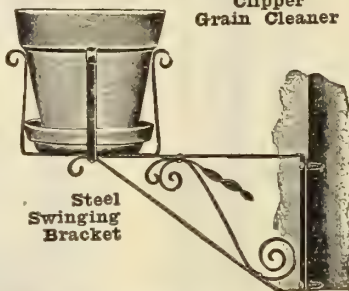
The best appliance for distributing putty. Used by a large number of leading florists, who have proven its merit. (See cut.) Each, 95c.; weight 1 lb.

Out o' Sight Mole Trap

Best Mole Trap ever offered, and only has to be tried to be appreciated. Can be used in hot-bed under sash. The secret of mole catching is a good trap and to know their habits. Full directions with each trap. (See cut.) Each, \$1.00; weight, 2 lbs.



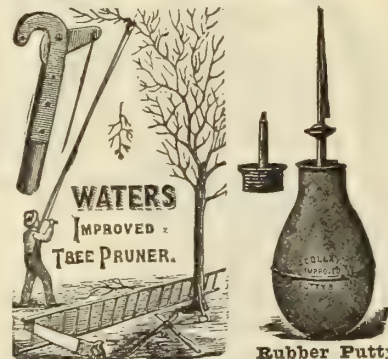
Clipper Grain Cleaner



Steel Swinging Bracket



Clauss' Steel Pruning Shears



WATERS IMPROVED TREE PRUNER.



Rubber Putty Bulb



Hazeltine's Hand Weeder



GARDEN DIBBER. SOLID STEEL 8 INCH BLADE



GARDEN TROWEL. SOLID STEEL 8 INCH BLADE



Lang's Weeder



Out O' Sight Mole Trap

Thermometer

Hot-bed or Mushroom, \$1.00; weight 1 lb. Greenhouse, 35c.; weight 1 lb. Incubator, 75c.

Waters' Tree Pruner (See Cut)

4-foot.....	\$0 60	8-foot.....	\$0 65
6-foot.....	65	10-foot.....	75
12-foot.....	\$0 85		

Pruning Shears

Clauss' Solid Steel—The best made; forged steel; blade of best cutlery steel, fitted to handle in a perfectly rigid manner. Easily removed. (See cut.) 10-inch, \$2.00; 9-inch, \$1.75. Weight, 2 lbs.

Common—Very strong. Best steel blades and excellent spring. Each, 60c.; weight 1 lb.

Clyde Pruning Shears—The best made. Each, \$1.75; weight 6 lbs.

Hedge Shears—Plain, 9-inch blades, \$1.15; weight 5 lbs.; 10-inch blades, \$1.25; weight, 5 lbs. Notched, 9-inch blades, \$1.35; 10-inch blades, \$1.50.

Pruning Saw—Double Edge. Duplex, 26-inch blade, \$1.25; weight 2 lbs.

Disston Swivel Blade Pruning Saw

This is the finest thing of its kind. The saw is adjustable so that it can be set at any angle. 14-inch blade, \$1.25; weight 2 lbs.

Knives

Budding Knives—80c.

Pruning Knives—\$1.00; weight 1 lb.

Bellows

For dusting plants with sulphur or like material. Two sizes, 6-inch, each, \$1.00; weight 2 lbs.; 8 1/2-inch, \$1.40; weight 3 lbs.

Clipper Grain and Seed Cleaner

We have used and sold the Clipper almost constantly for 20 years and pronounce it the best, strongest and most economical mill made up to date, and yet sells at the same price of any ordinary mill. No. 1, for general use, has 8 sieves (7 zinc), cleans grain and seeds of all kinds. Each, \$20.00. (See cut.)

Prices for larger sizes and Special Purpose Clipper Mills made on application.

Garden Weeders

Hazeltine Hand Weeder (see cut)—In general use. Blade solid steel, tempered, 7/8-inch wide and 3/4-inch thick, sharpened on all edges. Each, 20c.; weight 1 lb.

Excelsior Weeder—Very useful for weeding seed beds, stirring soil in hot-beds, cold frames, etc. Each, 10c.; weight 1 lb.

Lang's Weeder (see cut)—Doz., \$2.25; 1 lb.; each, 20c.; weight 1 lb.

The New Christy Garden Weeder—This All-Steel Weeder has the famous Scalloped Cutting Edge of the Christy Bread Knife. (See cut.) Each, 20c.; Smooth Edge, same price.

Garden Dibber (See cut)

Each, 30c.; weight 2 lbs.

Garden Trowels

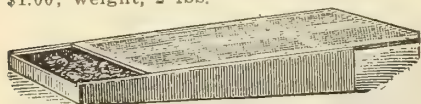
Trowels, Ordinary—5-inch, weight 1 lb., 10c.; 6-inch, weight 1 lb., 15c.

Trowels, Solid Steel—6-inch, weight 1 lb., 25c.

Cleves' Angle Trowels—No tool equals it for removing dandelions, plantain, dock, etc., from lawns; besides being a first-class transplanting trowel. Small size, 15c.; larger size, 30c.; weight 1 lb.

Garden Lines—100 feet Braided Linen, 40c.; weight 1 lb. Cotton, 25c.; weight 1 lb.

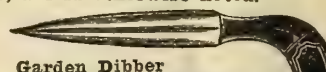
At the prices given, goods must be sent by express or freight at purchaser's expense, unless otherwise noted.



Plant Bed Cloth



Christy Garden Weeder



Garden Dibber



Garden Trowel

Prices Net—When ordering goods from this page to be mailed, ask postmaster for amount of postage to remit.

Fertilizers, Plant-Food, Etc.

Special Prices to persons wanting in Ton or Car Lots. Fertilizer prices are f.o.b. Columbus, Ohio. Analysis of any of the fertilizers cheerfully given if desired.

Bone Meal—Our Bone Meal is evenly ground and especially adapted for drilling. For lawn use, 10 lbs. for 250 square feet. Price—10 lbs., 40c.; 25 lbs., 75c.; 50 lbs., \$1.25; 100 lbs., \$2.00.

Bone Flour—Is especially adapted to florists' use. Gives the best results. 10 lbs., 50c.; 25 lbs., \$1.25; 100 lbs., \$2.50.

Shredded Cow Manure—Very best to mix with soil in which to plant flowers and almost all kinds of plants. Thoroughly decomposed, almost odorless and ready to use. Put up in bags. 5 lbs., 25c.; 10 lbs., 40c.; 50 lbs., \$1.25; 100 lbs., \$2.00.

Fruit and Root Crop Special—Fine for hastening early maturity of crops and to give high flavor to vegetables. Very popular. 10 lbs., 40c.; 25 lbs., 75c.; 50 lbs., \$1.00; 100 lbs., \$1.75.

Bone, Blood and Potash—Runs higher in its percentage of ammonia and potash. A splendid grower of early vegetables. Best all-round fertilizer. 10 lbs., 50c.; 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.25.

Nitrate of Soda—For early vegetable crops it will produce wonderful results. As the market price of Nitrate is subject to frequent changes, our prices are also subject to change without notice. 10 lbs., 75c.; 25 lbs., \$1.50; 50 lbs., \$2.50; 100 lbs., \$4.50.

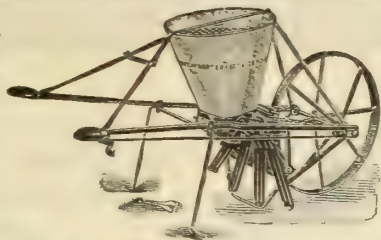
Land Plaster, or Gypsum—Used by many potato and vine growers. 25 lbs., 40c.; 50 lbs., 60c.; per barrel of about 250 lbs., on cars, \$2.20; 5 barrels for \$10.00.

Canada Hard-Wood Ashes—Splendid as a lawn dressing. Should be applied late in Fall or early in the Spring. Apply at rate of 75 lbs. to 1000 square feet. 50 lbs., 75c.; barrel of 200 lbs., \$1.75; ton, \$15.00.

Sheep Manure (Pulverized)—A pure natural manure and very nutritious for plants. For potting soil, mix one part manure to six parts soil. For vegetable garden, place directly in hills or drills. Promotes a rapid, steady growth until maturity. Splendid top dressing for lawns. 5 lbs., 25c.; 10 lbs., 40c.; 50 lbs., \$1.25; 100 lbs., \$2.00.

Blatchford's Plant Grower—Odorless, highly concentrated, soluble food for house plants. Directions for using with each box. 1½-lb. box, 25c.

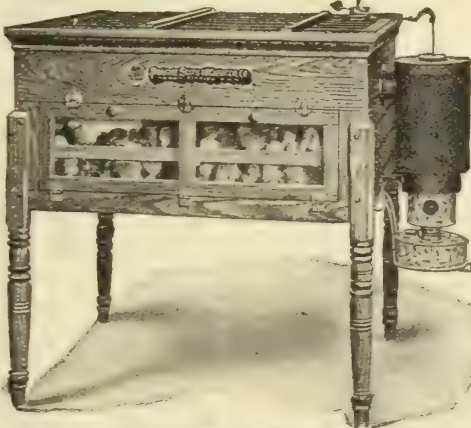
Lawn Fertilizer—Old and new lawns require stimulating after the Winter, or in the Fall after the season of cutting and heat of Summer. For this purpose we recommend Wood Ashes, Sheep Manure or Bone Meal as being best adapted to the wants of the lawn.



McWhorter Fertilizer Distributor



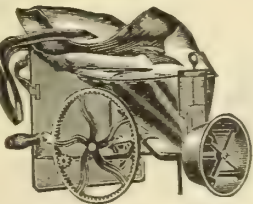
Columbus Corn Sheller



New Prairie State Sand Tray Incubator No. 2



THE
LITTLE GIANT
SEEDER



Cahoon Broadcast Seeder

Insecticides, Fungicides, etc.—Continued.

Tobacco Dust—Is very effective, being leaves, not ground stems. Used on cabbage and in vegetable hothouses. By express, 1 lb., 5c.; 10 lbs., 40c.; 100 lbs., \$3.50.

Bordeaux Mixture—Lion Brand—A superb article, ready for immediate use. Works freely without clogging in any spraying machine. Keeps any length of time. One gallon to 50 gallons of water. Quart, 40c.; gallon, \$1.00; 5 gal., \$4.00.

Box Lime and Sulphur Solution—An up-to-date remedy for San Jose Scale and bark lice infesting fruit and shade trees. A superior fungicide and insecticide for Summer use. Qt., 25c.; ½ gal., 40c.; gal., 65c.; 5 gal., \$1.75. Prices for large quantities on application.

Arsenate of Lead—Is used largely with Bordeaux Mixture for spraying potatoes and fruit trees. Adheres much better than Paris Green. Lb., 25c.; 2 lbs., 45c.; 5 lbs., \$1.00.

Aphine—A concentrated liquid spraying material, readily soluble in water. For use in greenhouse or garden and is effective against green, black and white fly (all aphids), red spider, thrips, mealy bug, soft scale, rose, cabbage and currant slugs. Can be used by any one and is a fine article. ¼-pt., 25c.; 1 pt., 65c.; qt., \$1.00; gal., \$2.50; by express only.

Whale Oil Soap—Makes an excellent wash for trees and plants where insects and eggs affect the bark and for smearing on the trunks of trees to prevent worms from crawling up. Lb., 20c.; 2 lbs., 35c.

McWhorter Fertilizer Distributor—For the practical and superior distribution of all commercial fertilizer. It distributes the fertilizer in a furrow, beside the growing crop, as a top dresser or as a broadcaster to any extent up to a uniform spread of over 2 feet, without removing or adding any part or loosening a bolt, and in any quantity from a few pounds to 40 or more pounds to the 100 yards of row. (See illustration.) Price, \$10.

Columbus Corn Sheller
Shells any size ear from popcorn to large field corn. May be fastened to a board or on top of the fence. Always ready. (See illustration.) By freight or express, \$1.25.

Cahoon Hand Broadcast Seeder
For sowing any grain or grass seed. Sows at a common walking gait 4 to 8 acres per hour. A saving of labor and one-third of the seed is effected by this machine. Reliable in all respects. (See illustration.) Price, \$3.50; weight 9 lbs.

Little Giant Seeder
Strongest, Lightest and Easiest Running. Best and cheapest crank Seeder made in the quality of work done and durability. Will not get out of order nor be affected by dampness of the weather. Distributes all kinds of fertilizer, land plaster, ashes and seeds. We have sold it for years with good satisfaction. (See illustration.) No. 1 (Fiddle-Bow), \$1.25; weight 5 lbs.; No. 3 (Crank), \$1.50; weight 6 lbs.

Poultry Supplies

Incubators, Brooders, Bone Cutters, Grit, Shell, Bone, Medicines, Lice Killers, Fountains, Leg Bands, etc.

We have a special descriptive and illustrated Poultry Supply Price List, which also contains complete list of Dog Remedies Foods and Soaps. Will send to those interested

Prairie State Incubator

We have the agency of Prairie State Machines, and can ship them promptly to any desired point. Large illustrated descriptive list of both Incubators and Brooders sent free on application. Incubators (see cut), \$9.00 to \$38.00. Egg Tester free with order.

New Prairie State Brooder

Offers poultrymen the most satisfactory device for taking chicks from incubator and caring for them. Brooders, \$12 to \$20. Hovers, \$7 to \$8.

Insecticides, Fungicides, Etc.

Target Brand Weed Killer—Keeps paths and roads free from weeds and grass. One gallon makes 50 gallons ready for use—enough for 150 yards of surface; applied with watering can. Directions on each can. By express or freight. 1 qt. can., 40c.; ½ gal., 65c.; 1 gal., \$1.00. Larger lots, special prices.

Hammond's Slug Shot—Non-poisonous; no danger to the person using it. It does not render vegetables or fruits on which it is applied injurious, and is the best insect destroyer ever offered for the destruction of potato bugs, worms and all insects that chew. Booklet, "Bugs and Blights in the Garden," sent free. 1 lb., 10c.; 5 lbs., 35c.; 10 lbs., 55c.; 50 lbs., \$2.45.

Dusters for Slug Shot or other Powders—½-gal. size, 30c.; gal. size, 50c.

Tobacco Stems—For fumigating plants infested with green fly, etc. By express or freight, lb., 5c.; 100 lbs., \$1.25; 500 lbs., \$5.00; ton, \$15.00.

All goods on this page sent at purchaser's expense.

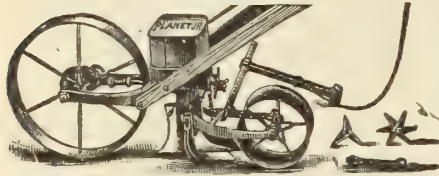


Planet Jr. Garden Tools



Space will not permit showing and describing here all of the **Planet Jr. Tools**, but we will send a beautifully illustrated **Catalog free** to any who may desire it. **Planet Jr. goods** are different from all others—the best on the market.

No. 3 Planet Jr. Hill and Drill Seeder



Price \$10.00
15-inch Steel Driving Wheel. Holds 3 quarts of seed. Weight packed, 44 lbs. Favorite among onion growers, market gardeners and seedsmen.

The No. 3 driving wheel is steel, with heavy steel spokes, not "piano wire," of proper height, with broad face, making the tool light and easy running, even with the hopper filled to the brim.

The special force feed is admirable, working equally well whether sowing with an ounce or a full hopper.

The hill dropping is simple and reliable; making hills either 4, 6, 8, 12, or 24 inches apart.

No. 12 Steel Frame, Double Wheel Hoe, Cultivator and Plow

Price \$6.50. Weight, 33 pounds

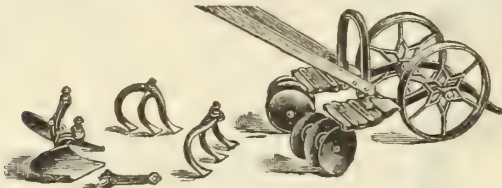


Steel Frame

This tool has one pair plows, one pair hoes, four cultivator teeth and a pair of leaf lifters. The tools sold with No. 12 are what gardeners use most, and the others can be added as wanted.

No. 14 Planet Jr. Double Wheel Disc Hoe, Cultivator and Plow

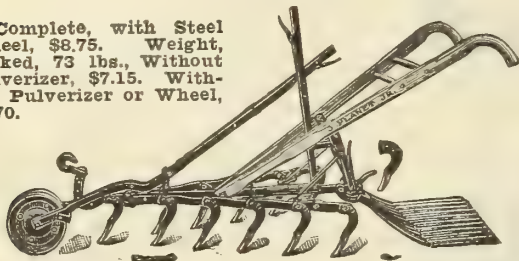
Price, with attachments, as in cut, \$7.50. Weight 38 lbs.



This new tool will give excellent satisfaction; is especially pleasing to all who work peat lands. There are three oil tempered discs on each side. The frame is steel.

Planet Jr. Twelve-Tooth Harrow, Cultivator and Pulverizer

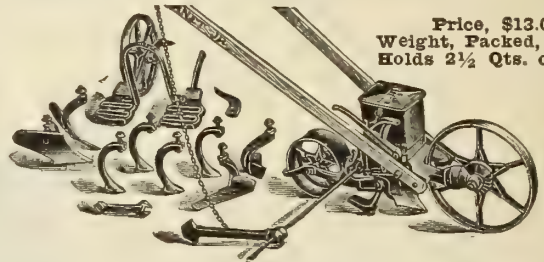
Complete, with Steel Wheel, \$8.75. Weight, packed, 73 lbs., Without Pulverizer, \$7.15. Without Pulverizer or Wheel, \$5.70.



Gardeners cultivate better than formerly. It has been found to pay best. With the Twelve-Tooth Harrow you can go as deep or shallow as you like, come up close to row without injuring plants, cut out all the weeds, stir the soil and mellow and fine it as with a garden rake.

The New "PLANET JR." Catalog is the handsomest, best, and most instructive book ever issued on a similar subject. Full of little points that bring profit. Full of true and handsome illustrations. Mailed free to any address on application.

No. 25 Planet Jr., Steel Frame, Combined Hill and Drill Seeder and Double Wheel Hoe, Cultivator and Plow



Price, \$13.00
Weight, Packed, 59 lbs.
Holds 2 1/2 Qts. of Seed

This new combined machine is intended for gardeners having large enough acreage in crops for a Double Wheel Hoe to be used to good advantage, and yet prefer not to buy seeders and wheel hoes separately.

No. 4 Planet Jr. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow

Price, Complete, \$10.50
Weight, 49 lbs.
As a Seeder Only \$8.50



This tool combines, in a single convenient implement, a capital hill-dropping seeder, a continuous row seeder, an admirable single wheel hoe, an excellent furrower, a capital wheel cultivator and a rapid and efficient wheel garden plow.

No. 17 Planet Jr., Steel Frame Single Wheel Hoe

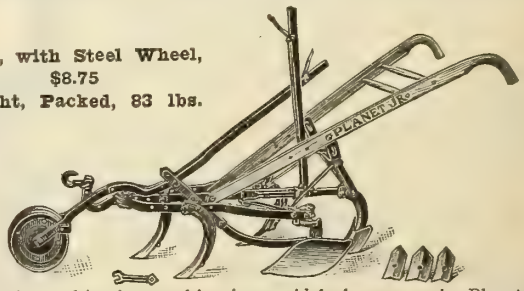
Price, \$4.50
Weight, 23 lbs.



You can do more and better hoeing with it in one day than you can do in three days with a hand hoe. The No. 17 has a pair of 6-in. hoes, a plow and a set of cultivator teeth, an outfit sufficient for most garden work.

No. 8 Planet Jr. Horse Hoe and Cultivator

Price, with Steel Wheel, \$8.75
Weight, Packed, 83 lbs.



No other cultivating machine is so widely known as the Planet Jr. Combined Horse Hoe and Cultivator, for it is in use throughout the civilized world. It is so strongly built as to withstand incredible strain, yet it is light and easy to handle.

Farm, Garden, Fruit, Flowers, BOOKS Vegetables, Poultry, Etc.

Reading is but another department of gardening. Evenings may be devoted to reading some good books very profitably. Select such as are of special interest, read, make notes of valuable suggestions and plan to carry them out in your work. It pays to keep posted on all new methods. Often a single item will be found worth many times the price of the book.

FARM AND GARDEN

- Asparagus: How to Grow for Market or Home Use.** 174 pages, 5x7 inches, handsomely illustrated. Cloth, 50c.
- Broom Corn and Brooms.** How to raise Broom Corn and Make Brooms on a small or large scale. Cloth, 50c.
- Cabbage, Cauliflower and Allied Vegetables.** By C. L. Allen. 5x7; 128 pages. Illustrated. Cloth, 50c.
- Celery Culture.** By W. R. Beattie. Illustrated. 5x7; 143 pages. Cloth, 50c.
- Smith's Corn Book.** Tells how to raise a hundred bushels per acre on worn soil. Price, \$1.00.
- Clovers and How to Grow Them.** By Thomas Shaw. Treats on the growth, cultivation and treatment of Clovers as applicable to all parts of the United States and Canada. Illustrated. 5x8; 337 pages. Cloth, \$1.00.
- Forage Crops.** By Thomas Shaw. An exhaustive work. Illustrated. 5x7; 287 pages. Cloth, \$1.00.
- Fences, Gates and Bridges.** How to make all kinds. 300 cuts, 188 pages, 5x7. Cloth, 50c.
- Forcing Book.** The cream of all information on forcing vegetables under glass. 266 pages, 5x7. Cloth, \$1.25.
- Farm Appliances.** Tells how to make them. 250 cuts, 192 pages, 5x7. Cloth, 50c.
- Farming with Green Manures.** 5x7; 269 pages. Cloth, \$1.00.
- Garden Making.** By Bailey. The beginner is shown how easy it is to raise Flowers, Fruits and Vegetables and beautify one's home grounds. 417 pages, 256 illustrations. New edition, \$1.50.
- Gardening for Pleasure.** By Henderson. \$1.50.
- Gardening for Profit.** A standard work, valuable as a reference book. Henderson. \$1.50.
- Grasses: How to Grow Them.** By Thomas Shaw. Illustrated. 5x7; 453 pages. Cloth, \$1.50.
- Ginseng.** Kains. Its cultivation, harvesting, marketing and market value. Illustrated. 5x7; 144 pages. Cloth, 50c.
- Hints and Helps for Young Gardeners—Hemenway.** A very practical treatise for beginners in gardening. 35c.
- How to Make Home and City Beautiful.** Hemenway. \$1.00, postpaid.
- How to Make a Flower Garden.** Written by experts and covers every branch of the subject. Very practical and suggestive, having been written from actual experience. Many lists of flowers and shrubs for special purposes and seasons are given, with directions how to grow each. 8x11; 370 pages; 200 fine half-tone illustrations. Price, \$1.75.
- Landscape Gardening Applied to Home Decoration.** By Maynard. 338 pages, 5x7. Illustrated. Cloth, \$1.50.
- Landscape Gardening.** By F. A. Waugh. Treats general principals which govern the art of producing pictures with plants. Contains many excellent suggestions applicable to common gardening. 152 pages; illustrated. 50c.
- Money in the Garden.** A very practical work on vegetable gardening. 268 pages, 5x7. Cloth, \$1.00.
- Mushroom Culture, Robinson's.** Illustrated. 172 pages. Cloth, 50c.
- Mushrooms: How to Grow.** 14-page booklet. 10c.
- Mushrooms: How to Grow.** Falconer. The best work on this subject published in America. 169 pages, 5x7. Cloth, \$1.00.
- New Onion Culture.** By T. Greiner. A complete guide for growing Onions for profit. 5x7; 111 pages. Illustrated. Cloth, 50c.
- Onion Book.** By 17 Successful Growers. Greatest value for the price. Paper binding, 20c.
- The Pruning Book.** By Bailey. A complete and practical book on the pruning and training of all kinds of trees and shrubs as applied to American conditions. 539 pages, 4½x7. Cloth, \$1.50.
- Potatoes, A B C of.** By T. B. Terry,, a thoroughly experienced Potato grower for years. Paper, 45c.
- Picturesque Gardens.** A magnificent book, beautifully illustrated, treating all forms of ornamental gardening. By Henderson. 168 pages, 10x12. Cloth, \$2.50.
- Principles of Vegetable Growing.** By Prof. Bailey. Gives the simplest directions for growing commonest things. Tells how to plant, prune, train and care for flowers, fruits, vegetables, bushes and trees. 250 pages, with many marginal cuts. Price, \$1.50.
- Rhubarb Culture.** New. How to Grow in Hotbed or Field. Half-tone illustrations. 130 pages, 5x7. Cloth, 50c.
- Silos, Ensilage and Silage.** Complete instructions. Illustrated. 100 pages, 5x7. Cloth, 50c.
- The Farm and Garden Rule Book—Bailey.** This is a revised and very much enlarged edition of the Horticulturist's Rule Book, covering farm practice as well as gardening. \$2.00 postpaid.
- The Gold Mine in the Front Yard.** How to improve your home grounds, be it small or large. A practical guide to the amateur in floriculture. 280 pages, 5x7½. Cloth, \$1.00.
- Tomato Culture.** By Will W. Tracy. A practical treatise on the Tomato. 5x7; 149 pages. Illustrated. Cloth, 50c.

FRUITS, FLOWERS, BULBS, ETC.

- Bulbs and Tuberous Rooted Plants.** By Allen. Complete directions for their successful culture, 5x7 inches; 311 pages. Illustrated. Cloth, \$1.50.
- Best Method of Heating Greenhouses.** 13 essays, 25c.
- Carnation Culture.** By Lamborn. Tells the whole story. Third edition. Illustrated. \$1.50.
- Commercial Rose Culture—Eber Holmes.** The most recent book on growing roses. Very complete and a valuable book. \$1.50 postpaid.
- Commercial Violet Culture.** Of great value to commercial or amateur growers. 224 pages, 4½x7. Cloth, \$1.50.
- Flowers, and How to Grow Them.** Of especial value to amateurs. By Eben E. Rexford. Cloth, 50c.
- Fuller's Small Fruit Culturist.** Beautifully illustrated. 287 pages, 5x7. Cloth, \$1.00.
- Fuller's Grape Culturist.** Takes the palm for practical value. 282 pages, 5x7. Cloth, \$1.50.
- Greenhouse Construction.** Manual on building, heating, ventilating, arrangement, etc. 218 pages, 5x7. Cloth, \$1.50.
- Greenhouse Management.** A manual for florists on forcing flowers, vegetables, etc., in greenhouse. 128 cuts, 400 pages, 5x7. Cloth, \$1.50.
- Home Floriculture.** By Eben E. Rexford. New; elegantly illustrated. 300 pages, 5x7 inches. Cloth, \$1.00.
- Nursery Book.** By Bailey. Illustrated. 365 pages, 4½x7. Cloth, \$1.50.
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- Dwarf Fruit Trees.** By F. A. Waugh, of Mass. Ag. Col. A guide to their propagation, selection and general management, with a chapter on bush fruits. 124 pages. Cloth, 50c.
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- Raffia Basket Making.** By T. Vernette Morse. Profusely illustrated. 5x7; 30 pages. Paper, 25c.

S, indicates Seeds.
B, Bulbs.

INDEX

R, Roots.
P, Plants or Shrubs.

	Page		Page		Page
Abronia	S. 88	Collection, Specialty, third		Iberis	S. 86
Abutilon	S. 88	and fourth pages of cover		Ice Plant	S. 97
Abyssinian Banana ..	S. 100	Columbine	S. 89	Impatiens	S. 97
Acroclium	S. 88	Convolvulus	S. 95	Impatiens	124-126
Adlumia	S. 88	Coreopsis	S. 89	Insecticides	125
Ageratum	S. 88	Corn, Sweet	S. 7-10, 34-35	Ipomoea	S. 95
Alfalfa	S. 73	" Field	S. 75-79	Japanese Hop	S. 97
Allegheny Vine	S. 88	" Pop	S. 9-79	Job's Tears	S. 92
Alyssum	S. 88	Corn, Kaffir	S. 80	Kaffir Corn	S. 80
Amaranthus	S. 88	Cornflower Aster	S. 107	Kale	S. 39
Anthemis	S. 88	Corn Salad	S. 33	Kenilworth Ivy	S. 97
Anchusa	S. 88	Cosmos	S. 92	Kochia	S. 97
Antirrhinum	S. 88	Cow Peas	S. 79	Kohl Rabi	S. 39
Aquilegia	S. 89	Cress	S. 33	Kudzu Vine	S. 97
Arabis	S. 88	Cucumber	S. 36-37	Lady's Eardrops	S. 91
Artichoke	S. 19, R. 79	Cucurbitors	126	Lady's Slipper	S. 89
Asparagus	S. 19, R. 70	Cyclamen	S. 92	Lantana	S. 94
" Ornamental	S. 89	Cypress Vine	S. 92	Larkspur	S. 17, 97
Asperula	S. 89	Dahlia	S. 93, B. 115	Lathyrus	S. 108-111
Asters	S. 85-87	Daisies	S. 17, 92	Lavender	S. 94
Baby's Breath	S. 96	Dandelion	S. 38	Lawn Grass Seed	72
Bachelor's Button	S. 87	Datura	S. 93	Leek	S. 39
Balloon Vine	S. 89	Delphinium	S. 93, 97	Lettuce	S. 40-42
Balsam	S. 89	Dianthus	S. 90	Lilies	B. 118
Balsam Apple	S. 89	Digitalis	S. 93	Linaria	S. 97
Balsam Pear	S. 89	Dill	S. 39	Lobelia	S. 94
Barley	S. 74	Dimorphotheca	S. 90	Love-in-a-Mist	S. 102
Beans	S. 12, 20-23	Dolichos	S. 90	Lychnis	S. 94
Beans, Farm	S. 79	Dusty Miller	S. 87	Madeira Vine	B. 118
Beet	S. 24-25	Echeveria	S. 91	Mangel Wurzel	S. 26
" Mangel and Sugar ..	S. 25	Echinacea Purpurea ..	S. 91	Marigold	S. 94
Begonia	S. 89	Echinocystis	S. 112	Marsh Mallow	S. 97
Bellis (Daisies)	S. 92	Egg Plant	S. 38	Marvel of Peru	S. 94
Blanket Flower	S. 91	Endive	S. 38	Matricaria	S. 91
Books	127	Erigeron	S. 91	Maurandya	S. 95
Borecole (Kale)	39	Eschscholtzia	S. 95	Melon, Musk	4-43-44
Broccoli	S. 26	Eulalia	S. 102	Melon, Water	S. 5, 45-47
Broom Corn	S. 81	Euphorbia	S. 91	Mesembryanthemum ..	S. 97
Brussels Sprouts	S. 26	Farm Seeds	79-83	Mignonette	S. 95
Buckwheat	S. 79	Fertilizers	125	Millet	S. 73
Burning Bush	S. 97	Feterita	S. 80	Mimulus	S. 100
Butterfly Runner Beans	S. 105	Feverfew	S. 91	Monkey Flower	S. 100
Cabbage	S. 6, 26-29	Field Corn	S. 75-79	Moonflower	S. 95
Caladium	B. 119	Flower Seeds	17-18, 81-113	Morning Glory	S. 95
Calendula	S. 86	Forget-Me-Not	S. 100	Mountain Fringe	S. 88
California Poppy	S. 95	Fountain Grass	S. 102	Mourning Bride	S. 107
Calliopsis	S. 89	Four O'Clocks	S. 94	Musa	S. 100
Campanula	S. 17, 86	Foxgloves	S. 93	Mushroom Spawn	47
Canary Bird Vine	S. 86	Fuchsia	S. 91	Musk Melon	S. 4, 43-44
Candytuft	S. 86	Gaillardia	S. 91	Musk Plant	S. 100
Canna	S. 86, P. 119	Garlic	B. 70	Mustard	S. 47
Canterbury Bells	S. 86	Geranium	S. 96	Myosotis	S. 100
Carnation	S. 86	Gilliflower	S. 107	Nasturtium	S. 100-101
Carrot	S. 30-31	Gladiolus	B. 114	Nicotiana	S. 102
Castor Oil Bean	S. 106	Godetia	S. 96	Nigella	S. 102
Cassia	S. 86	Gourds	S. 39, 96	Novelties & Specialties	3-18
Catchfly Plant	S. 86	Grains	S. 74	Nursery Stock, see below	
Cauliflower	S. 32	Grass	S. 71	Oats	S. 74
Celery	S. 33	" Lawn	S. 72	Okra	S. 47
Celosi	S. 87	Grasses, Ornamental ..	S. 102	Onion	S. 11, 48-50
Centaurea	S. 87	Gypsophila	S. 96	" Sets	B. 50
Cerastium	S. 86	Helianthus	S. 81, 107	Ornamental Grasses ..	S. 102
Chives	R. 70	Helichrysum	S. 97	Osage Orange	S. 81
Chrysanthemum	S. 87	Heliotrope	S. 96	Oyster Plant (Salsify)	S. 62
Cineraria	S. 87	Herbs	S. 39	Painted Tongue	S. 106
Cinnamon Vine	R. 118	Hibiscus	S. 18, 97	Pansy	S. 102-103
Clover	S. 73	Hollyhocks	S. 96	Paris Daisy	S. 87
Cobaea	S. 87	Hop	S. 97	Parsley	S. 51
Cockscomb	S. 87	Hop, Japanese	S. 97	Parsnip	S. 51
Coix	S. 92	Horse Radish	R. 70	Peanuts	S. 80
Coleus	S. 92	Humulus	S. 97	Peas	S. 8, 52-55
Collards	S. 33	Hunnemannia	S. 95	" for fodder, etc. ..	S. 79-80
Collection, Dollar,		Hyacinth Bean	S. 90	Pepper	S. 55-56
second cover page				Petunia	S. 104
Collections Flower				Periwinkle	S. 112
Seed 17-113				Phaseolus	S. 105
				Phlox	S. 103
				Pinks	S. 90
				Platycodon	S. 105
				Plants, see below	
				Pop Corn	S. 9, 79
				Poppy	S. 104-105
				Portulaca	S. 105
				Potatoes	S. 82, R. 82-83
				" Sweet	R. 83
				Primula (Primroses) ..	S. 105
				Pueraria	S. 97
				Pumpkin	S. 57
				Pyrethrum	S. 17, 105
				Radish	S. 58-60
				Ragged Sailor	S. 87
				Rape	S. 81
				Reseda	S. 95
				Rhubarb	S. 57, R. 70
				Ricinus	S. 106
				Roses	S. 106
				Ruta Baga	S. 63
				Rye	S. 74
				Sage	S. 39
				Salpiglossis	S. 106
				Salsify	S. 62
				Salvia	S. 106
				Savory	S. 39
				Scabiosa	S. 17-107
				Scarlet Runners	S. 107
				Scarlet Sage	S. 106
				Sensitive Plant	S. 107
				Shasta Daisy	S. 107
				Shrubs, see below	
				Silene	S. 86
				Smilax	S. 107
				Snapdragon	S. 88
				Sorghum	S. 80
				Soy Beans	S. 79
				Speltz	S. 74
				Spinach	S. 62
				Squash	S. 60-61
				Stocks	S. 107
				Stokesia	S. 107
				Strawflower	S. 97
				Sugar Cane	S. 90
				Summer Cypress	S. 97
				Sunflower	S. 81, 107
				Sun Plant	S. 105
				Sweet Alyssum	S. 88
				Sweet Pea	S. 108-111
				Sweet Sultan	S. 87
				Sweet William	S. 17-18, 111
				Sweet Woodruff	S. 89
				Swiss Chard	S. 25
				Thunbergia	S. 112
				Thyme	S. 39
				Tobacco Seed	63
				Tools	124-126
				Tomato	Front Cover
				" S. 3, 64-69	
				Tree Seeds	81
				Tuberose	R. 118
				Turnip	S. 63
				Valeriana	S. 112
				Vegetable Plants	70
				Verbena	S. 112
				Vetch	S. 81
				Vinca	S. 112
				Violet	S. 112
				Wallflower	S. 112
				Watermelons	S. 45
				Wheat	S. 74
				Wild Cucumber	S. 112
				Xeranthemum	S. 112
				Zinnias	S. 112

Special Notice With Reference to Nursery Stock

Our customers will notice that, with few exceptions, all plants, shrubs, and trees have been eliminated from this Catalog. We found it increasingly difficult to satisfy the exacting requirements made in many states by laws regulating the sale of live plants. The cost of the licenses required for selling nursery stock in many states makes it impossible to do business there. Considering the wide distribution which this Catalog receives, the long distances plants often have to travel and the exorbitant transportation charges arising for the customer, we thought best to discontinue the handling of nursery stock in connection with our mail-order business. Order heavy plants, shrubs and trees from reliable nurseries in your immediate neighborhood is the sincere advice of

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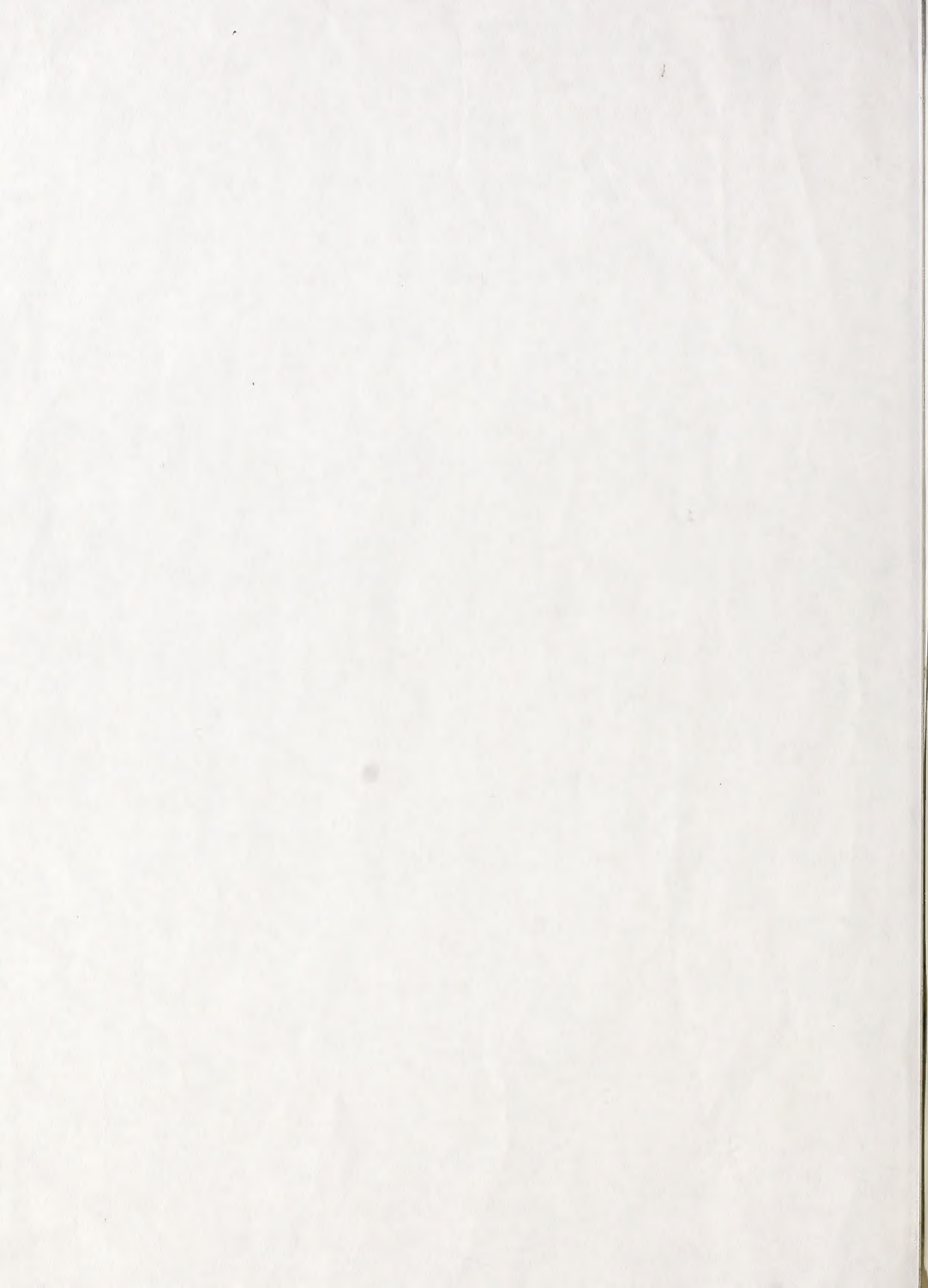
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Dahlia Specials

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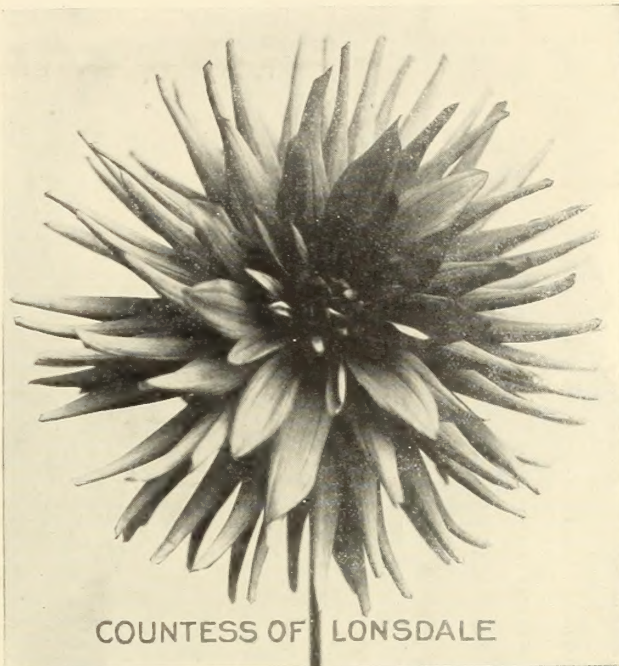
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Our Novelty Collection

(See Back Page of Cover)

One Packet of Each of These Fine Vegetables for 35c., Postpaid

Livingston's Prolific Yellow Pepper

Immensely productive of bright yellow fruits of the most convenient size for stuffing. Comes into bearing much sooner than the mammoth sorts, and is the surest crop of all. We secured a small amount of the seed of this variety some years ago from one of our customers and after carefully selecting it so as to produce fruits true to type we are now offering it for the first time.

On account of the mildness and thick walls of Livingston's Prolific Yellow Pepper it is one of the finest for use in salads or pickles. You miss a good thing if you don't use this Pepper in your crop for 1914. Pkt., 15c.

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Not a new thing, but it has been so long since we have seen it catalogued it has become a novelty again. The peculiarity of this most excellent sort is that when properly ripe, the inner core separates from the rind and may frequently be removed intact as shown in our illustration made from a photograph taken of a fruit grown at our farm, Season 1913. This core so much resembling an orange, after the removal of the peeling, no doubt suggested its name. The flesh is of beautiful pink shade with dark seed and of delicious quality, size, etc. Pkt., 15c.

Our Three Booklets

Tomato Facts — Profitable Onions — Seed Specialties Are Free. Ask for Them

Livingston's Yellow Beauty Onion

Very similar except in color to our very popular Brown Beauty onion, so well known among some of our best gardeners as one of the best for growing small, round, hard, shiny sets or medium-sized onions from the black seed in one season, and that beats any other sort for keeping up into the Spring (often until June).

Livingston's Yellow Beauty is a bright lemon yellow sort of very fine and firm texture, especially adapted to growing sets and onions for late Spring sales. Pkt., 10c.; ½ oz., 15c.; oz., 25c.

Livingston's "Earliest on Earth" Sweet Corn

Records on our trial grounds for the past two years show it to be earliest of all including such well-known extra-early varieties as "Peep o' Day," "Golden Bantam," "Nordheims," "Premo," and all strains of Cory. Planted May 25, 1912, it was ready for market in 62 days. Retaining the sweetness and color of Golden Bantam, it is a week to ten days earlier as shown by our tests. Having 10 to 12 rows of grains, gaps in the ears, so common in the eight-rowed varieties, are prevented. Length of ear frequently runs six to eight inches when in the roasting ear stage. Ears are produced on short stalks and on account of extreme earliness a late cabbage or other crop may be easily secured on the same ground and the same season. The rich color, extreme earliness, and luscious sweetness and flavor all warrant the liberal planting of Livingston's Earliest of all. Pkt., 15c.; 2 pkts., 25c.

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